

Montana

Basin Outlook Report

May 1, 2002



Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:
See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Natural Resources Conservation Service
Bozeman, Montana

(406) 587-6811
10 E Babcock
Federal Bldg Room 443
Bozeman MT 59715

Where to Get More Information

This contact list provides you with the names and phone numbers of individuals who can provide more detailed snow survey information for each county.

Beaverhead County

Victor Hager
683-4963

Big Horn County

Ken Scalzone
665-3442

Blaine County

Matthew Crampton
357-2320

Broadwater County

Kelly Morris
266-3146

Carbon County

Gregory Evertz
962-3641

Carter County

Wayne Yost
775-6355

Cascade County

Marty Metz
727-7580

Chouteau County

Dan Van Voast
622-5627

Custer County

Terry Heck
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Daniels County

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Dawson County

Linda Peterson-Lohse
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Deer Lodge County

Glen Green
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Fallon County

Ann Fischer
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Fergus County

Patty Creamer
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Flathead County

Angel Rosario
752-4242

Gallatin County

Gordon Hill
522-4018

Garfield County

Clarence Clayton
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Glacier County

Mark Johnson
873-4292

Golden Valley County

John Rouane Jr.
323-2103

Granite County

Annette Johnson
859-3291

Hill County

Deana Grabofsky
265-6792

Jefferson County

Julie Sacks
287-3215

Judith Basin County

Rick Caquelin
566-2311

Lake County

David Wolf
676-2841

Lewis and Clark County

Lex Riggle
449-5278

Liberty County

Dawn Wickum
759-5778

Lincoln County

Kirk Sullivan
296-2233

Madison County

Ole Berkram
842-5741

McCone County

Regan Fanning
485-2744

Meagher County

Otto Ohlson
547-3633

(over)

Mineral County

Mike Odegard
829-3395

Missoula County

Mike Odegard
829-3395

Musselshell County

John Rouane Jr.
323-2103

Park County

Ron Hoagland
222-2899

Petroleum County

Nikki Lott
429-6646

Phillips County

Lorna Philp
654-1334

Pondera County

Anthony Prince
278-3922

Powder River County

Carol Hilliard
436-2417

Powell County

Glen Green
846-1703

Prairie County

Bob Prongua
635-5381

Ravalli County

Lane Johnson
363-5010

Richland County

Jamie Selting
433-2103

Roosevelt County

Robert Bray
787-5232

Rosebud County

Rocky Schwagler
356-7333

Sanders County

Don Feist
826-3701

Sheridan County

Monica Friedrich
765-1801

Silver Bow County

Julie Sacks
287-3215

Stillwater County

Philip Sandoval
322-5359

Sweet Grass County

Chuck Roloff
932-5160

Teton County

Stacy Denny-Eneboe
466-5722

Toole County

Misty Vermulm
434-5234

Treasure County

Stewart Greer
342-5510

Valley County

Denise Wiedenheft
228-4321

Wheatland County

John Oiestad
632-5534

Wibaux County

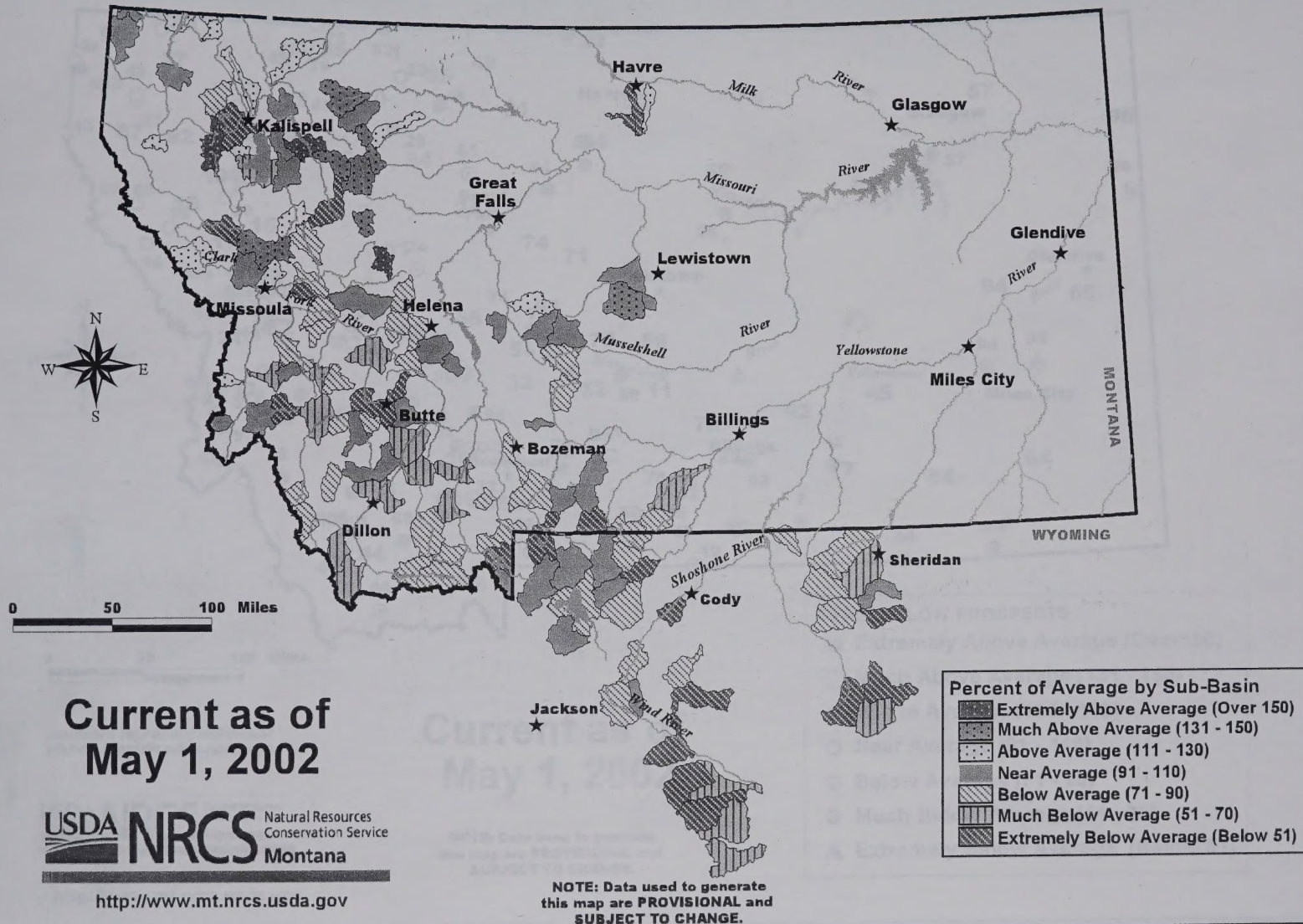
Katrina Johnson
796-2211

Yellowstone County

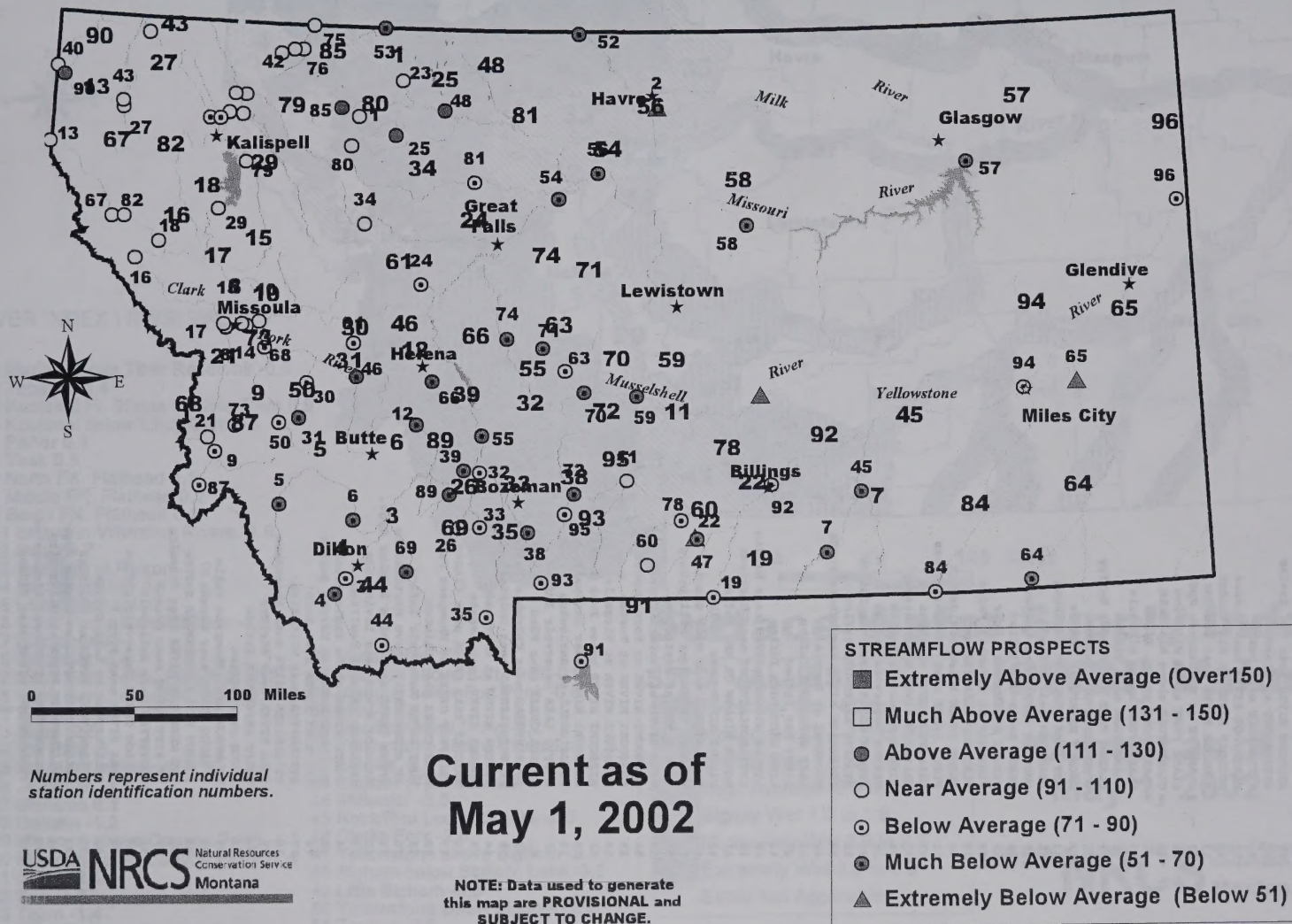
Shad Weber
657-6135

1/9/02

Mountain Snow Water Equivalent



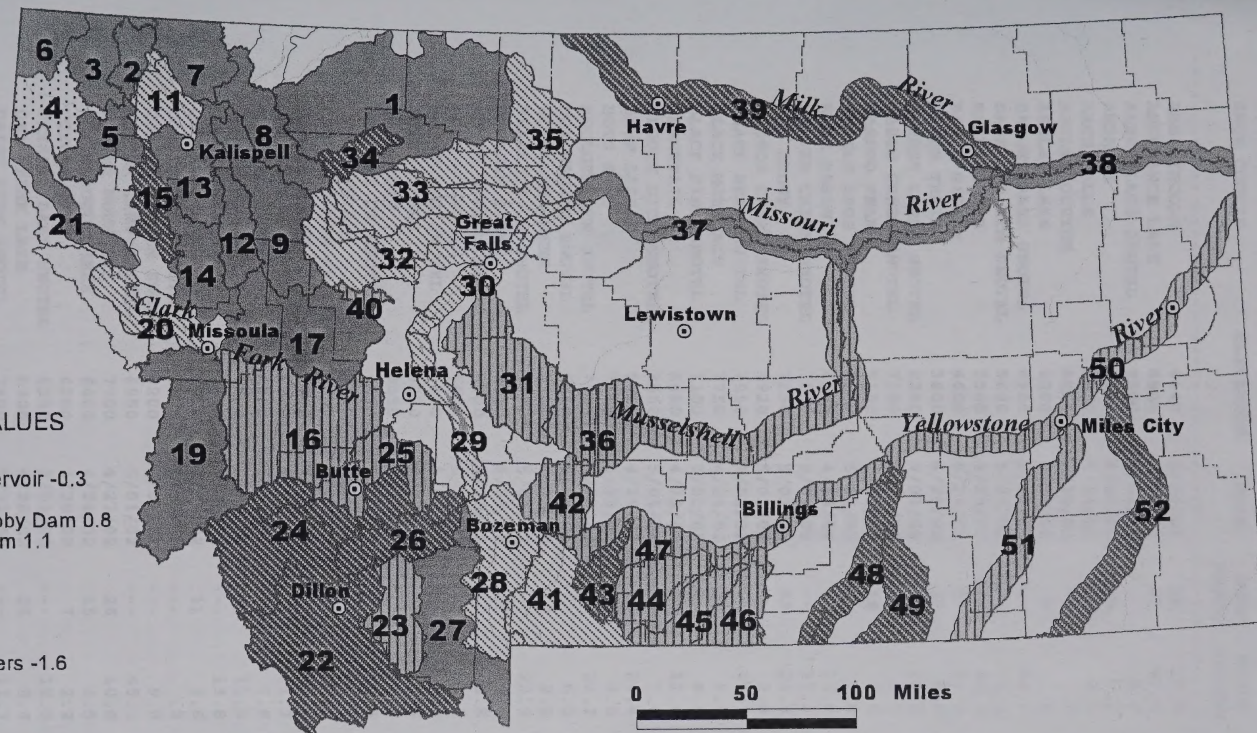
Streamflow Prospects for Montana



Map

Forecast Point

1	BADGER CREEK near Browning
2	BEAVER CREEK near Havre
3	BEAVERHEAD RIVER at Barretts
4	CLARK CANYON RES Inflow
5	BIG HOLE RIVER at Wisdom
6	BIG HOLE RIVER near Melrose
7	BIGHORN RIVER near St. Xavier
8	BITTERROOT at Missoula
9	BITTERROOT near Darby
10	BLACKFOOT RIVER near Bonner
11	BOULDER RIVER at Big Timber
12	BOULDER RIVER near Boulder
13	CLARK FK at Whitehorse Rds
14	CLARK FORK above Milltown
15	CLARK FORK above Missoula
16	CLARK FORK at St. Regis
17	CLARK FORK below Missoula
18	CLARK FORK near Plains
19	CLARKS FORK RIVER near Belfry
21	COMO RESERVOIR Inflow
22	COONEY RESERVOIR Inflow
23	CUT BANK CREEK at Cut Bank
24	DEARBORN near Crag
25	DUPUYER CREEK near Valier
26	ENNIS Reservoir Inflow
27	FISHER RIVER near Libby
28	FLATHEAD at Columbia Falls
29	FLATHEAD Lake Inflow
30	FLINT CREEK below Boulder Ck
31	FLINT CREEK near Southern Cross
32	GALLATIN RIVER at Logan
33	GALLATIN RIVER near Gateway
34	GIBSON Reservoir Inflow
35	HEBGEN Reservoir Inflow
36	HUNGRY HORSE Reservoir Inflow
38	HYALITE RESERVOIR Inflow
39	JEFFERSON RIVER near Three Forks
40	KOOTENAI at Leonia
42	LAKE SHERBURNE Inflow
43	LIBBY RES Inflow
44	LIMA RESERVOIR Inflow
45	LITTLE BIGHORN RIVER near Hardin
46	LITTLE BLACKFOOT near Garrison
47	LOWER WILLOW CK RES Inflow
48	MARIAS RIVER near Shelby
49	MF FLATHEAD near West Glacier
50	MF ROCK CREEK near Phillipsburg
52	MILK RIVER at East Cross.
53	MILK RIVER at Western Crossing
54	MISSOURI RIVER at Fort Benton
55	MISSOURI RIVER at Toston
56	MISSOURI RIVER at Virgelle
57	MISSOURI RIVER below Fort Peck
58	MISSOURI RIVER near Landusky
59	MUSSELSHELL at Harlowton
60	MYSTIC LAKE Reservoir Inflow
61	NEVADA CREEK near Finn
62	NF FLATHEAD near Columbia Falls
63	NF MUSSELSHELL near Delpine
64	POWDER RIVER at Moorehead
65	POWDER RIVER near Locate
66	PRICKLY PEAR CREEK near Clancy
67	PROSPECT CREEK at Thompson Falls
68	ROCK CREEK near Clinton
69	RUBY RIVER Reservoir Inflow
70	SF MUSSELSHELL above Martinsdale
71	SHEEP CREEK near White Sulphur Spgs.
72	SHIELDS RIVER near Livingston
73	SKALKAHO CK near Hamilton
74	SMITH RIVER above Eagle Creek
75	ST. MARY RIVER at US/CAN Border
76	ST. MARY RIVER near Babb
77	STILLWATER near Whitefish
78	STILLWATER RIVER near Absarokee
79	SWAN RIVER near Bigfork
80	SWIFT RESERVOIR Inflow
81	TETON near Dutton
82	THOMPSON near Thompson Falls
83	TOBACCO RIVER near Eureka
84	TONGUE RIVER RESERVOIR Inflow
85	TWO MEDICINE RIVER near Browning
87	WF BITTERROOT near Conner
88	WHITEFISH near Kalispell
89	WILLOW CREEK Reservoir Inflow
90	YAAK RIVER near Troy
91	YELLOWSTONE at Lake Outlet
92	YELLOWSTONE RIVER at Billings
93	YELLOWSTONE RIVER at Corwin Spgs
94	YELLOWSTONE RIVER at Miles City
95	YELLOWSTONE RIVER near Livingston
96	YELLOWSTONE RIVER near Sidney



RIVER INDEX \ SWSI VALUES

- 1 Marias above Tiber Reservoir -0.3
- 2 Tobacco 0.4
- 3 Kootenai Ft. Steele to Libby Dam 0.8
- 4 Kootenai below Libby Dam 1.1
- 5 Fisher 0.1
- 6 Yaak 0.6
- 7 North FK. Flathead 0.1
- 8 Middle FK. Flathead 0.2
- 9 South FK. Flathead 0.1
- 11 Stillwater/Whitefish Rivers -1.6
- 12 Swan 0.7
- 13 Flathead at Polson -0.2
- 14 Mission Valley 0.1
- 15 Little Bitterroot -3.2
- 16 Clark Fork above Milltown -2.3
- 17 Blackfoot 0.4
- 19 Bitterroot -0.4
- 20 Clark Fork below Bitterroot -1.7
- 21 Clark Fork below Flathead -0.7
- 22 Beaverhead -3.3
- 23 Ruby -2.8
- 24 Big Hole -3
- 25 Boulder (Jefferson) -2.3
- 26 Jefferson -3
- 27 Madison 0.1
- 28 Gallatin -1.2
- 29 Missouri above Canyon Ferry -1.5
- 30 Missouri below Canyon Ferry -1.4
- 31 Smith -2.1
- 32 Sun -1.3
- 33 Teton -1.4
- 34 Birch/Dupuyer Creeks -3.4
- 35 Marias -1.1

- 36 Musselshell -2.8
- 37 Missouri above Fort Peck -0.9
- 38 Missouri below Fort Peck -0.6
- 39 Milk -3.8
- 40 Dearborn near Craig -2.2
- 41 Yellowstone above Livingston -1.5
- 42 Shields -2.8
- 43 Boulder (Yellowstone) -3.7
- 44 Stillwater -2.8
- 45 Rock/Red Lodge Creeks -2.5
- 46 Clarks Fork -2.8
- 47 Yellowstone above Bighorn -2.1
- 48 Bighorn below Bighorn Lake -3.6
- 49 Little Bighorn -3.3
- 50 Yellowstone below Bighorn -2.8
- 51 Tongue -2.8
- 52 Powder -3.1

Surface Water Supply Index (SWSI) Values

SWSI VALUES

- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Slightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

NOTE: Data used to generate this map are **PROVISIONAL** and **SUBJECT TO CHANGE**.

Current as of
May 1, 2002

USDA **NRCS** Natural Resources
Conservation Service
Montana

<http://www.mt.nrcs.usda.gov>

SNOTEL AND SNOW COURSE SUMMARY

MAY 2002

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABE LINCOLN	4440	4/29/02	38	17.5	11.4	14.3
ABUNDANCE LAKE	8800	4/26/02	61	21.5	14.6	22.9
ALBRO LAKE SNOTEL	8300	5/01/02	---	16.7	15.1	--
AMBROSE	6480	4/24/02	29	9.2	8.9	11.1
ARCH FALLS	7350	4/24/02	28	9.6	10.2	13.1
ASHLEY DIVIDE	4820	4/30/02	1	.3	.6	1.1
ASHLEY LAKE	4000	4/30/02	0	.0	.0	1.2
BADGER PASS SNOTEL	6900	5/01/02	---	48.0	24.4	36.2
BANFIELD MTN SNOTEL	5600	5/01/02	---	18.8	10.9	17.1
BAREE CREEK	5500	4/29/02	104	47.6	26.6	40.3
BAREE MIDWAY	4600	4/29/02	77	33.2	22.6	27.4
BAREE TRAIL	3800	4/29/02	19	8.0	7.2	1.3
BARKER LAKES SNOTEL	8250	5/01/02	---	13.9	14.4	16.2
BASIN CREEK SNOTEL	7180	5/01/02	---	5.0	7.7	10.0
BASSOO PEAK	5150	4/26/02	19	7.5	4.0	3.2
BEAGLE SPGS SNOTEL	8850	5/01/02	---	5.8	6.3	9.3
BEAR BASIN	8150	4/25/02	42	16.8	15.6	21.2
BEAVER CREEK SNOTEL	7850	5/01/02	---	18.3	12.5	18.8
BIG SNOWY	7150	5/01/02	62	21.3	21.4	22.5
BISSON CREEK SNOTEL	4920	5/01/02	---	2.0	7.9	3.6
BLACK BEAR SNOTEL	7950	5/01/02	---	41.1	24.9	39.9
BLACK MOUNTAIN	7750	4/24/02	30	9.4	15.9	16.9
BLACK PINE SNOTEL	7100	5/01/02	---	8.6	7.7	11.0
BLACKTAIL	5650	4/29/02	29	12.6	10.0	9.7
BLOODY DICK SNOTEL	7550	5/01/02	---	7.8	6.5	10.9
BLUE LAKE	5900	4/29/02	55	24.4	17.0	22.4
BOTS SOTS	7750	4/25/02	14	4.8	2.9	7.4
BOULDER MTN SNOTEL	7950	5/01/02	---	22.2	13.7	21.6
BOX CANYON SNOTEL	6700	5/01/02	---	6.3	.4	6.0
BOXELDER CREEK	5100	4/25/02	10	2.9	4.5	2.6
BRACKETT CR SNOTEL	7320	5/01/02	---	22.9	16.1	21.5
BRANHAM LAKES	8850	4/28/02	66	24.8	24.0	32.2
BRUSH CREEK TIMBER	5000	4/25/02	11	3.8	3.2	3.6
BULL MOUNTAIN	6600	4/25/02	0	.0	.0	2.6
BURNT MTN SNOTEL	5880	5/01/02	---	1.3	--	--
CABIN CREEK	5200	4/29/02	6	1.8	3.3	1.4
CALL ROAD	8050	4/26/02	25	7.0	10.6	12.5
CALVERT CR SNOTEL	6430	5/01/02	---	1.5	.2	2.4
CAMP SENIA	7890	4/25/02	21	5.7	3.2	7.6
CARROT BASIN SNOTEL	9000	5/01/02	---	27.4	19.3	31.0
CARTER CREEK	7400	4/29/02	9	3.1	6.4	6.0
CHESSMAN RESERVOIR	6200	4/30/02	7	1.7	.6	1.7
CHICKEN CREEK	4060	4/29/02	18	7.6	4.8	5.4
CLOVER MDW SNOTEL	8800	5/01/02	---	15.5	14.4	19.4
COLE CREEK SNOTEL	7850	5/01/02	---	13.8	9.5	19.7
COLLEY CREEK	6300	4/29/02	11	3.6	3.0	4.3
COMBINATION SNOTEL	5600	5/01/02	---	.2	.8	1.2
COPPER BOTTOM SNOTEL	5200	5/01/02	---	9.8	4.2	4.5
COPPER CAMP SNOTEL	6950	5/01/02	---	45.2	15.9	30.2
COPPER MOUNTAIN	7700	4/27/02	28	10.0	9.6	10.0
COTTONWOOD CREEK	6400	4/24/02	15	4.5	8.8	7.3
COYOTE HILL	4200	4/29/02	7	2.2	.0	2.6
CRYSTAL LAKE SNOTEL	6050	5/01/02	---	12.5	11.3	9.4
DAD CREEK LAKE	8400	4/26/02	33	9.6	13.3	16.8
DAISY PEAK SNOTEL	7600	5/01/02	---	11.7	7.6	11.0
DALY CREEK SNOTEL	5780	5/01/02	---	3.1	3.7	5.3
DARKHORSE LK. SNOTEL	8700	5/01/02	---	28.9	21.5	35.4
DAVIS CREEK	5400	4/30/02	49	23.6	16.3	20.2
DEADMAN CR SNOTEL	6450	5/01/02	---	6.8	4.1	5.9
DISCOVERY BASIN	7050	4/25/02	21	6.2	10.4	9.4
DIVIDE SNOTEL	7800	5/01/02	---	9.9	12.0	12.0
DIX HILL	6400	4/29/02	8	2.9	2.4	3.8
DUPUYER CREEK SNOTEL	5750	5/01/02	---	10.2	9.3	7.9
EAST FORK R.S.	5400	4/24/02	0	.0	.0	.7
ELK PEAK	8000	4/29/02	47	14.1	12.8	17.8
EMERY CREEK SNOTEL	4350	5/01/02	---	6.9	6.9	7.4
FATTY CREEK	5500	4/29/02	57	25.4	19.6	23.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
FISHER CREEK SNOTEL	9100	5/01/02	---	37.1	21.7	37.8
FIVE-BULL	5700	4/29/02	13	4.6	4.6	2.0
FLATTOP MTN SNOTEL	6300	5/01/02	---	56.9	29.8	46.7
FLEECER RIDGE	7500	4/25/02	27	8.2	5.6	8.7
FOOLHEN	8280	4/26/02	47	15.0	12.1	17.7
FOUR MILE	6900	4/30/02	6	2.0	5.3	6.2
FOURTH OF JULY	3450	4/29/02	0	.0	.0	1.0
FREIGHT CREEK	6000	4/29/02	42	16.6	12.2	12.0
FROHNER MDWS SNOTEL	6480	5/01/02	---	6.5	6.6	6.5
GARVER CREEK SNOTEL	4250	5/01/02	---	1.9	3.7	3.2
GOLD STONE	8100	4/26/02	39	12.6	11.2	17.7
GRASSHOPPER	7000	4/29/02	10	3.5	4.2	4.0
GRAVE CRK SNOTEL	4300	5/01/02	---	9.7	6.6	7.0
GRIFFIN CR DIVIDE	5150	4/26/02	12	5.0	1.7	4.9
HAND CREEK SNOTEL	5030	5/01/02	---	3.9	7.2	6.8
HAWKINS LAKE SNOTEL	6450	5/01/02	---	31.4	16.1	28.9
HEBGEN DAM	6550	4/29/02	11	4.2	.0	6.6
HELL ROARING DIVIDE	5770	4/29/02	66	28.8	19.4	29.0
HERRIG JUNCTION	4850	4/29/02	62	29.2	12.9	22.9
HOLBROOK	4530	4/29/02	1	.3E	1.5	1.2
HOODOO BASIN SNOTEL	6050	5/01/02	---	57.7	25.3	45.7
ICEBERG LAKE NO 3	5600	4/30/02	84	37.2	22.4	27.7
INDEPENDENCE	7850	4/25/02	43	16.7	11.0	16.1
INTERGAARD	6450	4/29/02	9	3.0	6.5	6.1
JOHNSON PARK	6450	4/25/02	5	1.8	1.1	1.4
JOSEPHINE LOWER NO 9	4900	4/29/02	45	18.5	10.5	13.0
KRAFT CREEK SNOTEL	4750	5/01/02	---	8.9	7.2	5.2
LAKE CREEK	6100	4/26/02	1	.1E	.0	2.7
LAKEVIEW CANYON	6930	5/01/02	22	7.5	7.5	9.7
LAKEVIEW RDG. SNOTEL	7400	5/01/02	---	8.4	4.3	8.7
LEMHI RIDGE SNOTEL	8100	5/01/02	---	9.7	10.2	10.9
LICK CREEK SNOTEL	6860	5/01/02	---	7.1	6.6	10.1
LITTLE PARK	7400	4/25/02	33	13.2	11.4	15.9
LOGAN CREEK	4300	4/25/02	8	2.2	5.0	1.7
LONE MOUNTAIN SNOTEL	8880	5/01/02	---	18.4	14.8	20.8
LOWER TWIN SNOTEL	7900	5/01/02	---	14.2	14.5	21.3
LUBRECHT SNOTEL	4680	5/01/02	---	.0	.0	.5
LUBRECHT FOREST NO 3	5450	5/01/02	0	.0	.0	1.7
LUBRECHT FOREST NO 4	4650	5/01/02	0	.0	.0	.1
LUBRECHT FOREST NO 6	4040	5/01/02	0	.0	.0	.0
LUBRECHT HYDROPLT	4200	5/01/02	0	.0	.0	.1
MADISON PLT SNOTEL	7750	5/01/02	---	23.6	12.2	24.2
MANY GLACIER SNOTEL	4900	5/01/02	---	13.5	6.7	5.7
MARIAS PASS	5250	5/01/02	43	20.4	12.4	12.5
MIDDLE MILL CREEK	7850	4/29/02	24	9.2	9.9	15.1
MILL CREEK	7500	4/29/02	26	10.6	7.8	10.3
MINERAL CREEK	4000	4/30/02	26	10.0	8.3	9.6
MONUMENT PK SNOTEL	8850	5/01/02	---	24.2	14.9	23.2
MOSS PEAK SNOTEL	6780	5/01/02	---	41.5	30.3	41.8
MOULTON RESERVOIR	6850	4/26/02	5	1.6E	5.5	3.5
MOUNT ALLEN NO 7	5700	4/29/02	102	44.3	27.4	41.7
MT LOCKHART SNOTEL	6400	5/01/02	---	26.2	16.2	21.2
MULE CREEK SNOTEL	8300	5/01/02	---	15.4	14.8	17.0
N.E. ENTRANCE SNOTEL	7350	5/01/02	---	.7	.2	7.1
NEVADA RIDGE SNOTEL	7020	5/01/02	---	14.0	11.9	14.4
NEWTON MOUNTAIN	5600	4/29/02	76	35.4	18.2	33.8
NEZ PERCE CMP SNOTEL	5650	5/01/02	---	11.9	7.4	10.8
NEZ PERCE CREEK	6600	4/28/02	0	.0	2.9	2.7
NEZ PERCE PASS	6570	4/24/02	35	13.8	10.8	14.2
N.F. ELK CR SNOTEL	6250	5/01/02	---	7.4	7.1	8.0
NF JOCKO SNOTEL	6330	5/01/02	---	59.7	32.9	44.4
NOISY BASIN SNOTEL	6040	5/01/02	---	45.6	31.9	43.8
NOTCH	8500	4/26/02	42	13.8	16.1	19.4
OPHIR PARK	7150	4/29/02	33	12.9	12.7	16.0
PETERSON MDW SNOTEL	7200	5/01/02	---	8.2	10.6	11.0
PICKFOOT CRK SNOTEL	6650	5/01/02	---	6.6	5.0	6.4
PIEGAN PASS NO 6	5500	4/29/02	91	40.8	24.6	35.5
PIKE CREEK SNOTEL	5930	5/01/02	---	33.6	16.4	25.9
PIPESTONE PASS	7200	4/28/02	7	2.2	4.6	4.8
PLACER BASIN SNOTEL	8830	5/01/02	---	17.9	11.3	19.8
POORMAN CR SNOTEL	5100	5/01/02	---	46.9	21.7	30.0

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
POTOMAGETON PARK	7150	5/01/02	16	6.0	--	8.3
PTARMIGAN	5800	4/30/02	95	42.4	24.6	33.5
RED MOUNTAIN	6000	4/30/02	46	20.3	11.0	16.4
RED TOP	5260	4/29/02	61	28.5	15.4	27.0
REVAIS CREEK	4800	4/30/02	0	.0	.0	.5
ROCK CREEK	5600	5/01/02	17	6.2	5.7	4.4
ROCK CREEK MEADOW	8160	5/03/02	52	34.2	15.5	22.7
ROCKER PEAK SNOTEL	8000	5/01/02	---	12.6	14.0	16.6
ROCKY BOY SNOTEL	4700	5/01/02	---	.1	.0	1.2
SACAJAWEA	6550	4/24/02	24	8.8	11.6	12.0
SACAJAWEA SNOTEL	6550	5/01/02	---	9.1	8.6	12.8
SADDLE MTN SNOTEL	7900	5/01/02	---	25.2	17.3	26.5
S.F. SHIELDS SNOTEL	8100	5/01/02	---	16.7	12.9	19.6
SHORT CREEK SNOTEL	7000	5/01/02	---	2.5	3.1	4.7
SHOWER FALLS SNOTEL	8100	5/01/02	---	19.8	19.4	26.9
SKALKAHO SNOTEL	7260	5/01/02	---	24.8	15.4	25.4
SLEEPING WOMAN SNTL	6150	5/01/02	---	16.8	10.5	13.4
SLIDE ROCK MOUNTAIN	7100	4/28/02	41	13.1	12.4	15.7
SMUGGLER MINE	6960	4/29/02	13	4.4	7.1	7.6
SPOTTED BEAR MTN.	7000	4/29/02	26	10.8	12.0	7.6
SPUR PARK SNOTEL	8100	5/01/02	---	21.4	14.2	23.2
STAHL PEAK SNOTEL	6030	5/01/02	---	47.8	21.4	37.1
STEMPLE PASS	6600	4/30/02	29	8.2	5.7	9.3
STORM LAKE	7780	4/25/02	38	11.5	13.7	14.3
STRYKER BASIN	6180	4/29/02	90	38.4	20.2	32.6
STUART MOUNTAIN SNTL	7400	5/01/02	---	36.7	24.6	32.3
SUCKER CREEK	3960	4/25/02	2	.6	.0	.2
TAYLOR ROAD	4080	4/25/02	0	.0	.0	.3
TEN MILE LOWER	6600	5/03/02	17	3.6	4.0	4.5
TEN MILE MIDDLE	6800	5/03/02	30	8.2	9.5	11.2
TEPEE CREEK SNOTEL	8000	5/01/02	---	13.6	10.1	13.6
TIMBERLINE CREEK	8850	5/01/02	46	12.9	8.3	17.3
TIZER BASIN SNOTEL	6840	5/01/02	---	8.8	8.2	9.5
TRAIL CREEK	7090	4/26/02	16	4.9	4.4	6.1
TRINKUS LAKE	6100	4/29/02	95	45.2	34.5	40.8
TRUMAN CREEK	4060	4/30/02	0	.0	.0	.1
TV MOUNTAIN	6800	4/29/02	48	17.9	13.2	17.4
TWELVEMILE SNOTEL	5600	5/01/02	---	10.3	2.0	8.8
TWENTY-ONE MILE	7150	4/26/02	30	11.5	9.2	13.4
TWIN CREEKS	3580	4/29/02	10	4.5	6.8	1.7
TWIN LAKES SNOTEL	6400	5/01/02	---	43.2	23.4	38.5
UPPER HOLLAND LAKE	6200	4/29/02	89	41.4	26.5	33.5
WALDRON SNOTEL	5600	5/01/02	---	12.6	7.6	6.4
WARM SPRINGS SNOTEL	7800	5/01/02	---	20.2	17.7	23.7
WEASEL DIVIDE	5450	5/02/02	79	38.2	16.4	32.7
WEST YELL'ST SNOTEL	6700	5/01/02	---	1.5	.0	6.1
WHISKEY CREEK SNOTEL	6800	5/01/02	---	15.3	8.3	15.2
WHITE MILL SNOTEL	8700	5/01/02	---	23.8	15.6	26.4
WHITE PINE RIDGE	8850	4/26/02	8	2.0	4.2	5.6
WILLOW CREEK	6500	4/25/02	14	3.8	2.8	4.0
WOOD CREEK SNOTEL	5960	5/01/02	---	10.5	7.2	8.5
WRONG CREEK	5700	4/28/02	29	11.5	7.3	7.7

Montana Water Supply Outlook Report as of May 1, 2002

April was a variable weather month across Montana. The first two weeks the temperatures were warm and by the second week had increased to where there was snow melt and the rivers began to rise. The second half of April was cold, mainly east of the divide with mountain snow showers and much reduced snow melt. April temperatures were generally near average to one degree below average west of the divide and two to five degrees below average east of the divide. Mountain precipitation ranged from near average in the north half of the state to below average in the southwest. Valley precipitation was generally near to below average. There is a large difference between areas that will be have surface water for irrigation and those areas that are dryland. Even though the mountain snowpack is near to above average the valleys have not always received the moisture and remain very dry.

Snowpack

Mountain snow water contents were ranging from below average in south west and south central Montana to above average in north west and north central Montana. Cold temperatures east of the divide have kept the mountain snowpack from an early melt. Statewide, mountain snow water content was 101 percent of average and 144 percent of last year. West of the Continental Divide, snowpack was 113 percent of average and 156 percent of last year. East of the continental Divide, snowpack was 88 percent of average and 135 percent of last year. Areas where the snowpack is near or below last year are the Clark Fork above the Blackfoot, Jefferson River, and Bear Paw Mountains.

There was a significant storm that moved across Montana May 6, 7, and 8. Total mountain snow water increased generally by .5 to 2.5 inches. Areas east of the divide generally received the greatest amounts ranging from about 1 to 2 inches of snow water.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	113	156
KOOTENAI	121	186
FLATHEAD	119	157
UPPER CLARK FORK	94	120
BITTERROOT	103	167
LOWER CLARK FORK	134	186
MISSOURI	90	122
MISSOURI HEADWATERS	80	112
JEFFERSON	76	102
MADISON	85	139
GALLATIN	84	118
MISSOURI MAINSTEM	110	135
HEADWATERS MAINSTEM	89	114
SMITH-JUDITH-MUSSELSHELL ..	99	129
SUN-TETON-MARIAS	134	161
MAINSTEM ABOVE FT. PECK RES	112	140
MILK (Bearpaw Mtns.)	84	80
ST. MARY	124	171
ST. MARY & MILK	123	168
YELLOWSTONE	79	142
UPPER YELLOWSTONE	87	150
LOWER YELLOWSTONE (WYOMING) .	72	135
WIND	68	149
SHOSHONE	81	159
BIGHORN	76	140
TONGUE	77	125
POWDER	63	115

Precipitation

April mountain and valley precipitation across the state was 91 percent of average and 77 percent of last year, while the water year precipitation was 95 percent of average and 130 percent of last year. West of the Continental Divide, April mountain and valley precipitation was 96 percent of average and 73 percent of last year and the water year precipitation was 107 percent of average and 159 percent of last year. East of the Divide, April mountain and valley precipitation was 88 percent of average and 80 percent of last year and the water year precipitation was 84 percent of average and 109 percent of last year.

RIVER BASIN	APRIL % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	96	107
KOOTENAI	108	124
FLATHEAD	104	110
UPPER CLARK FORK	91	96
BITTERROOT	94	101
LOWER CLARK FORK	94	118
MISSOURI	83	84
JEFFERSON	92	83
MADISON	89	88
GALLATIN	73	82
MISSOURI MAINSTEM	79	74
SMITH-JUDITH-MUSSELSHELL	82	82
SUN-TETON-MARIAS	105	100
MILK	79	95
ST. MARY	118	113
YELLOWSTONE	97	80
UPPER YELLOWSTONE	113	89
LOWER YELLOWSTONE	85	80
WIND	80	76
SHOSHONE	112	91
BIGHORN	84	81
TONGUE	70	87
POWDER	94	90

Reservoirs

Major reservoir storage statewide was 90 percent of average and 94 percent of last year. Reservoir storage west of the Continental Divide was 123 percent of average and 100 percent of last year. East of the Continental Divide, reservoir storages were 82 percent of average and 91 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	123	100
KOOTENAI	140	92
FLATHEAD	113	107
UPPER CLARK FORK	98	111
BITTERROOT	105	113
LOWER CLARK FORK	116	97
MISSOURI	82	92
JEFFERSON	56	70
MADISON	111	99
GALLATIN	134	90
MISSOURI MAINSTEM	82	92
SMITH-JUDITH-MUSSELSHELL	30	73
SUN-TETON-MARIAS	92	98
MILK	24	103
ST. MARY	39	106
YELLOWSTONE	84	78
UPPER YELLOWSTONE	94	84
LOWER YELLOWSTONE	84	78

Streamflow

SEASONAL STREAMFLOW FORECASTS

Statewide, streamflows are forecast to average between 80 and 90 percent. West of the Continental Divide, streamflows are forecast to average between 83 and 94 percent of average and east of the Continental Divide, streamflows are forecast to average between 59 and 72 percent of average.

Streamflows this spring and summer will depend upon how the snow continues to melt and the amount and timing of spring rain. Stream flows west of the divide, with the exception of the Clark Fork above the Blackfoot, will be above those we saw last year. If there is average to above average spring rain east of the divide, most streams should have flows above those experienced last year. Should the spring rain be less than average many streams east of the divide could be similar to those last year. Water users and water managers east of the divide need to have a plan for lower flows should the spring and early summer rains not materialize.

Below are River Basin streamflow forecast summaries for the period May 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	May-July		May-July
	THIS YEAR		LAST YEAR
	% OF AVERAGE		% OF AVERAGE
COLUMBIA	83 to 94		49 to 56
KOOTENAI	94 to 105		50 to 57
FLATHEAD	86 to 94		53 to 59
UPPER CLARK FORK	63 to 79		50 to 61
BITTERROOT	85 to 95		48 to 56
LOWER CLARK FORK	89 to 96		43 to 49
MISSOURI	59 to 73		46 to 54
JEFFERSON	50 to 63		43 to 53
MADISON	81 to 87		57 to 64
GALLATIN	67 to 75		64 to 72
MISSOURI MAINSTEM	57 to 70		43 to 53
SMITH-JUDITH-MUSSELSHELL .	46 to 62		34 to 41
SUN-TETON-MARIAS	83 to 104		35 to 43
MILK	28 to 48		21 to 26
ST. MARY	97 to 103		59 to 62
YELLOWSTONE	60 to 71		44 to 50
UPPER YELLOWSTONE	70 to 79		52 to 58
LOWER YELLOWSTONE	49 to 63		37 to 42

NOTE: The MAY-JULY LAST YEAR % OF AVERAGE column above is last years forecasts on May 1, NOT of what actually occurred.

Peak Streamflow Forecasts

PEAK STREAMFLOW FORECASTS FOR UNREGULATED STREAMS ARE AS FOLLOWS:

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
COLUMBIA RIVER			
Tobacco River nr Eureka.	1,100 to 1,700	79 to 122	1,388
Fisher Creek nr Libby...	1,700 to 2,600	73 to 111	2,334
Yaak River nr Troy	4,600 to 7,200	79 to 123	5,859
Blackfoot near Bonner...	7,200 to 10,600	85 to 124	8,512
Little Blackfoot nr			
Garrison	200 to 500	18 to 45	1,115
Clark Fork ab Missoula	11,000 to 17,000	75 to 116	14,698
Bitterroot near Darby ..	3,200 to 5,000	59 to 92	5,454
Skalkaho Ck nr Hamilton.	450 to 600	-----	-----
Clark Fork blw Missoula	20,000 to 30,000	70 to 105	28,482
Clark Fork at St. Regis	25,000 to 40,000	69 to 111	35,987
North Fork Flathead near			
Columbia Falls	16,000 to 23,000	81 to 116	19,788
Middle Fork Flathead near			
West Glacier	15,000 to 21,000	78 to 110	19,126
Hungry Horse Res Inflow	22,000 to 27,000	-----	-----
Stillwater nr Whitefish.	900 to 1,500	54 to 90	1,673
Swan at Big Fork.....	4,400 to 5,800	89 to 118	4,929
Nevada Creek near Finn..	40 to 200	13 to 66	301
Lower Willow Res nr			
Philipsburg	60 to 150	28 to 70	214
Middle Fork Rock Creek			
near Philipsburg.....	450 to 700	55 to 85	821
Thompson Falls nr			
Thompson Falls	1,500 to 2,300	73 to 112	2,047
Prospect Ck at			
Thompson Falls	1,000 to 1,500	82 to 123	1,219
MISSOURI RIVER			
Big Hole at Wisdom	500 to 1,300	32 to 83	1,566
Big Hole near Melrose ..	2,400 to 4,500	34 to 63	7,139
Inflow Clark Canyon Dam.	400 to 1,000	34 to 84	1,191
Inflow Ruby Reservoir ..	300 to 700	28 to 66	1,055
Inflow Hebgen Reservoir	2,400 to 3,600	63 to 94	3,832
Inflow Hyalite Res	100 to 200	38 to 76	262
Gallatin near Gateway ..	3,200 to 4,600	61 to 88	5,232
Gallatin near Logan	2,200 to 4,200	40 to 77	5,468
Boulder near Boulder ...	400 to 700	34 to 59	1,183
Jefferson nr Three Forks	2,400 to 3,600	25 to 37	9,626
Missouri at Toston	6,000 to 12,000	33 to 66	18,209
Badger Ck nr Browning ..	1,000 to 1,800	59 to 106	1,691
Two Medicine near			
Browning	2,000 to 3,400	52 to 89	3,838
Cut Bank at Cut Bank ...	600 to 1,400	47 to 110	1,275
Marias near Shelby	3,000 to 6,400	43 to 92	6,980
Inflow Gibson Reservoir	4,800 to 7,400	62 to 96	7,697
Inflow Swift Reservoir .	500 to 1,000	43 to 86	1,162
Sheep Creek near White			
Sulphur Springs.....	90 to 170	47 to 89	190
S. Fk. Musselshell above			
Martinsdale	50 to 450	4 to 40	1,133
Musselshell at Harlowton	30 to 300	2 to 23	1,293
Bearver Ck nr Havre	5 to 40	3 to 28	145
Prickly Pear nr Clancy .	90 to 150	41 to 68	221

ST. MARY RIVER

YELLOWSTONE RIVER

NOTE: The low number in the flow range represents the maximum daily flow that would be expected to occur with little rainfall during the peak snowmelt period. The high number in the flow range could be expected with moderate amounts of rain about the same time as maximum snowmelt runoff is occurring.

Surface Water Supply Index

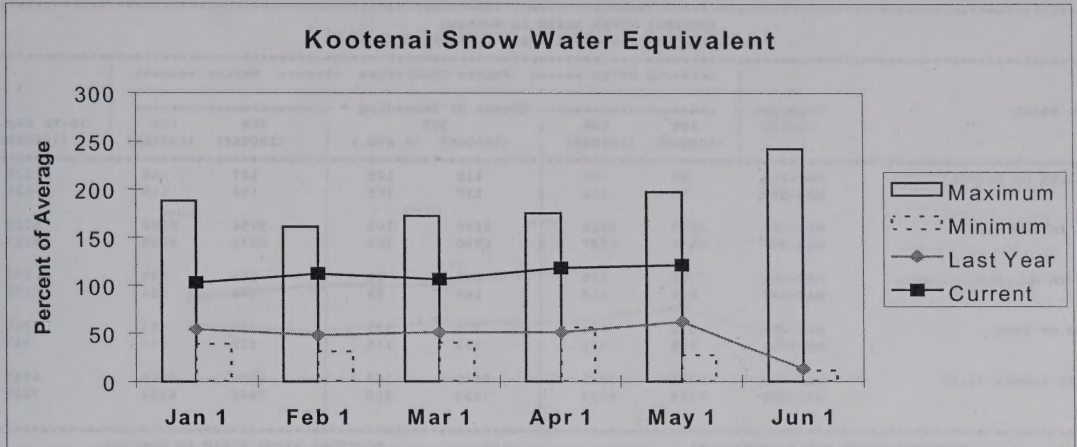
The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

SWSI	Basin
+0.4	Tobacco River
+0.8	Kootenai Ft. Steele to Libby Dam
+1.1	Kootenai River below Libby Dam
+0.1	Fisher River
+0.6	Yaak River
+0.1	North Fork Flathead River
+0.2	Middle FORK Flathead River
+0.1	South Fork Flathead River
+0.1	Flathead River at Columbia Falls
+1.6	Stillwater/Whitefish Rivers
+0.7	Swan River
-0.2	Flathead River at Polson
+0.1	Mission Valley
-3.2	Little Bitterroot River
-2.3	Clark Fork River above Milltown
+0.4	Blackfoot River
-0.4	Bitterroot River
-1.7	Clark Fork River below Bitterroot River
-0.7	Clark Fork River below Flathead River
-3.3	Beaverhead River
-2.8	Ruby River
-3.0	Big Hole River
-2.3	Boulder River (Jefferson)
-3.0	Jefferson River
+0.1	Madison River
-1.2	Gallatin River
-1.5	Missouri River above Canyon Ferry
-1.4	Missouri River below Canyon Ferry
-2.1	Smith River
-1.3	Sun River
-1.4	Teton River
-3.4	Birch/Dupuyer Creeks
-1.1	Marias River above Tiber Reservoir
-0.3	Marias River below Tiber Reservoir
-2.8	Musselshell River
-0.9	Missouri River above Ft. Peck
-1.6	Missouri River below Ft. Peck
-3.8	Milk River
-2.2	Dearborn River near Craig
-1.5	Yellowstone River above Livingston
-2.8	Shields River
-3.7	Boulder River (Yellowstone)
-2.8	Stillwater River
-2.5	Rock/Red Lodge Creeks
-2.8	Clarks Fork River
-2.1	Yellowstone River above Bighorn River
-3.6	Bighorn River below Bighorn Lake
-3.3	Little Bighorn River
-2.8	Yellowstone River below Bighorn River
-2.8	Tongue River
-3.1	Powder River

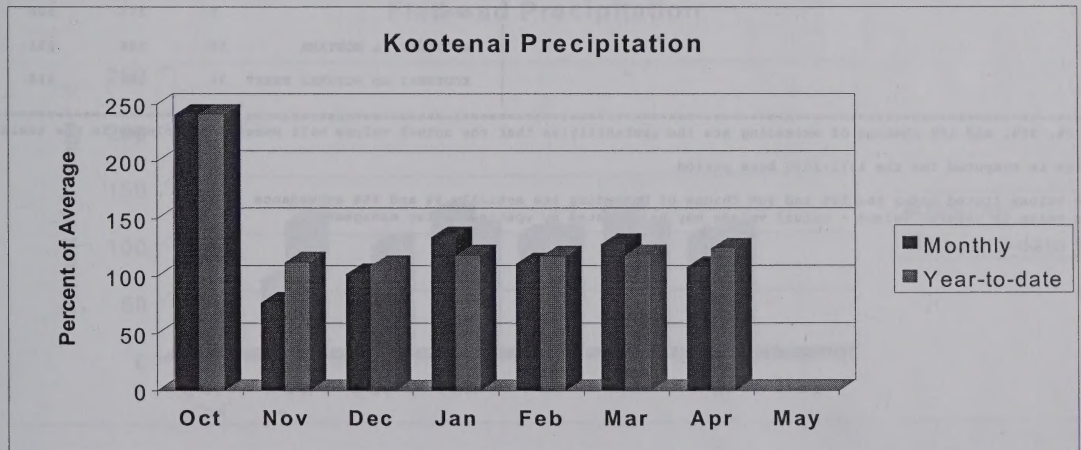
Kootenai River Basin in Montana

Snowpack conditions in the Kootenai River Basin were above average. Snow water content was 121 percent of average and 186 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 107 percent of average and 77 percent of last year. Valley precipitation during April was 132 percent of average and 104 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 124 percent of average and 220 percent of last year.



Lake Koocanusa storage was 140 percent of average and 92 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was +0.4 in the Tobacco River; +0.8 in the Kootenai Ft. Steele to Libby Dam; +1.1 in the Kootenai River below Libby Dam; +0.1 in the Fisher River; and +0.6 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - May 1, 2002

		<----- Drier ----- Future Conditions ----- Wetter ----->						
Forecast Point	Forecast Period	Chance Of Exceeding *		Chance Of Exceeding *		Chance Of Exceeding *		30-Yr Avg (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	10% (% AVG.)	30% (1000AF)	10% (1000AF)	
TOBACCO RIVER nr Eureka	MAY-JUL	85	103	115	105	127	145	110
	MAY-SEP	95	116	130	105	144	165	124
LIBBY RES Inflow (1,2)	MAY-JUL	3798	4824	5290	103	5756	6782	5121
	MAY-SEP	4550	5747	6290	103	6833	8030	6117
FISHER RIVER nr Libby	MAY-JUL	95	125	145	94	165	195	155
	MAY-SEP	106	138	160	94	182	214	170
YAAK RIVER nr Troy	MAY-JUL	299	344	375	115	406	451	325
	MAY-SEP	315	363	395	115	427	475	345
KOOTENAI at Leonia (1,2)	MAY-JUL	5395	5921	6160	100	6399	6925	6167
	MAY-SEP	6409	6994	7260	100	7526	8111	7250

KOOTENAI RIVER BASIN in Montana Reservoir Storage (1000 AF) - End of April					KOOTENAI RIVER BASIN in Montana Watershed Snowpack Analysis - May 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
LAKE KOOCANUSA	5748.0	2736.0	2966.0	1948.9	KOOTENAY in CANADA	18	195	112
					KOOTENAI MAINTSTEM	4	222	134
					TOBACCO	3	216	125
					FISHER	6	146	122
					YAAK	7	175	108
					KOOTENAI in MONTANA	19	186	121
					KOOTENAI ab BONNERS FERRY	37	189	118

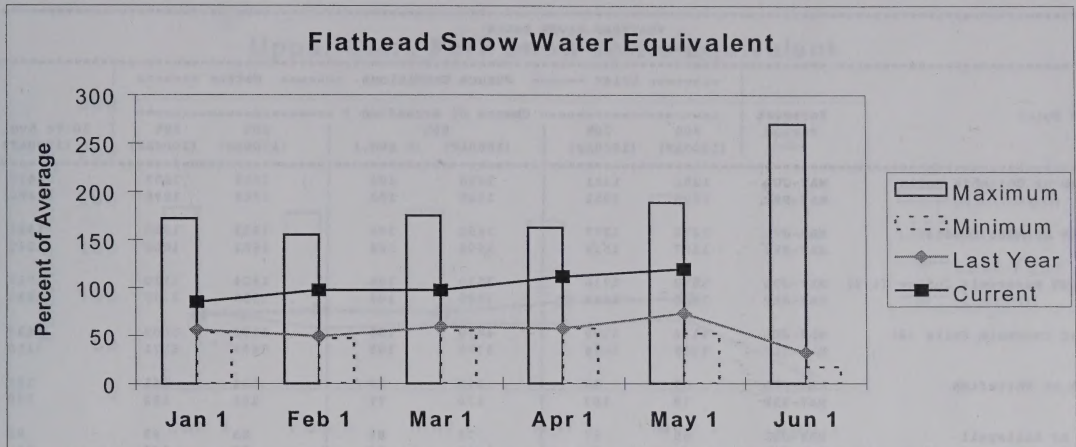
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

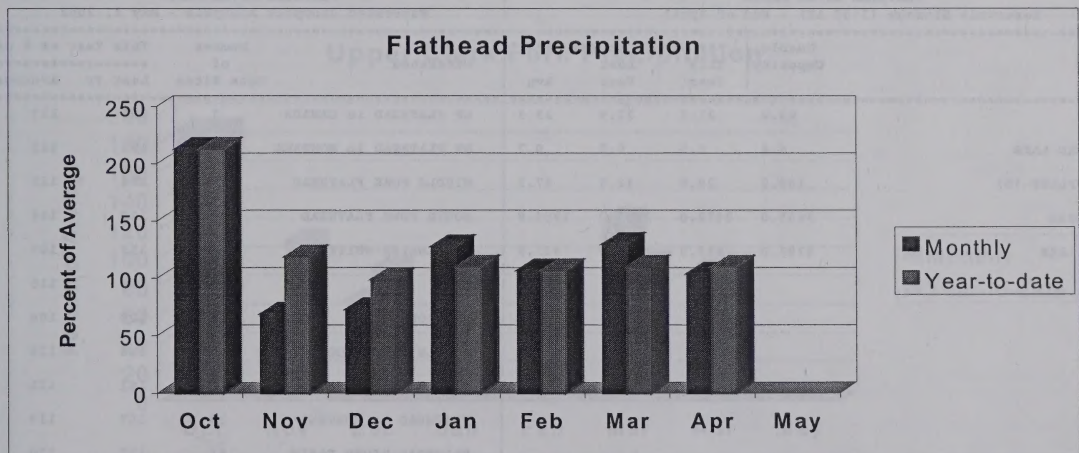
Flathead River Basin

Snowpack conditions in the Flathead River Basin were above average. Snow water content was 119 percent of average and 157 percent of last year.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2001; April maximum swe was in 1972 and minimum was in 2001; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 107 percent of average and 77 percent of last year. Valley precipitation during April was 53 percent of average and 33 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 110 percent of average and 161 percent of last year.



Combined Camas reservoir storage was 80 percent of average and 64 percent of last year; combined Mission Valley Combined Camas reservoir storage was 71 percent of average and 93 percent of last year; Lower Jocko Lake was 0 percent of average and 0 percent of average; combined Mission Valley reservoir storage was 63 percent of average and 70 percent of last year; Hungry Horse storage was 126 percent of average and 121 percent of last year; and Flathead Lake storage was 88 percent of average and 82 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was +0.1 in the North Fork Flathead River; +0.2 in the Middle Fork Flathead River; +0.1 in the South Fork Flathead River; +0.1 in the Flathead River at Columbia Falls; -1.6 in the Stillwater/Whitefish Rivers; +0.7 in the Swan River; -0.2 in the Flathead River at Polson; +0.1 in the Mission Valley; and -3.2 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - May 1, 2002

		<----- Drier ----- Future Conditions ----- Wetter ----->							
Forecast Point	Forecast Period	90% 70%		Chance Of Exceeding *		30% 10%		30-Yr Avg.	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)		
NF FLATHEAD nr Columbia Falls	MAY-JUL	1251	1381	1470	104	1559	1689	1420	
	MAY-SEP	1404	1551	1650	103	1749	1896	1600	
MF FLATHEAD nr West Glacier	MAY-JUL	1270	1377	1450	104	1523	1630	1390	
	MAY-SEP	1397	1518	1600	104	1682	1803	1540	
HUNGRY HORSE Reservoir Inflow (1,2)	MAY-JUL	1510	1716	1810	106	1904	2110	1710	
	MAY-SEP	1635	1845	1940	106	2035	2245	1830	
FLATHEAD at Columbia Falls (2)	MAY-JUL	4171	4599	4890	106	5181	5609	4630	
	MAY-SEP	4569	5046	5370	105	5694	6171	5110	
STILLWATER nr Whitefish	MAY-JUL	69	96	115	77	134	161	150	
	MAY-SEP	78	109	130	77	151	182	170	
WHITEFISH nr Kalispell	MAY-JUL	55	67	75	85	83	95	88	
	MAY-SEP	61	75	85	84	95	109	101	
ASHLEY CREEK nr Marion (2)	MAY-JUL	0.74	1.93	2.75	62	3.57	4.76	4.46	
	MAY			1.75	63			2.77	
SWAN RIVER nr Bigfork	MAY-JUL	434	467	490	104	513	546	470	
	MAY-SEP	494	536	565	103	594	636	550	
FLATHEAD Lake Inflow (1,2)	MAY-JUL	4939	5449	5680	107	5911	6421	5330	
	MAY-SEP	5290	5930	6220	106	6510	7150	5850	

FLATHEAD RIVER BASIN Reservoir Storage (1000 AF) - End of April					FLATHEAD RIVER BASIN Watershed Snowpack Analysis - May 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of Last Yr Average	
		This Year	Last Year	Avg			Last Yr	Average
CAMAS (4)	45.2	21.2	22.9	29.9	NF FLATHEAD in CANADA	3	155	133
LOWER JOCKO LAKE	6.4	0.0	0.0	0.7	NF FLATHEAD in MONTANA	8	193	123
MISSION VALLEY (8)	100.0	29.9	42.6	47.1	MIDDLE FORK FLATHEAD	5	184	129
HUNGRY HORSE	3451.0	2472.0	2046.0	1954.8	SOUTH FORK FLATHEAD	7	129	114
FLATHEAD LAKE	1791.0	817.3	1000.0	931.9	STILLWATER-WHITEFISH	10	159	109
					SWAN	7	146	115
					MISSION VALLEY	4	120	104
					LITTLE BITTERROOT-ASHLEY	6	156	126
					JOCKO	5	161	121
					FLATHEAD in MONTANA	38	157	119
					FLATHEAD RIVER BASIN	41	157	120

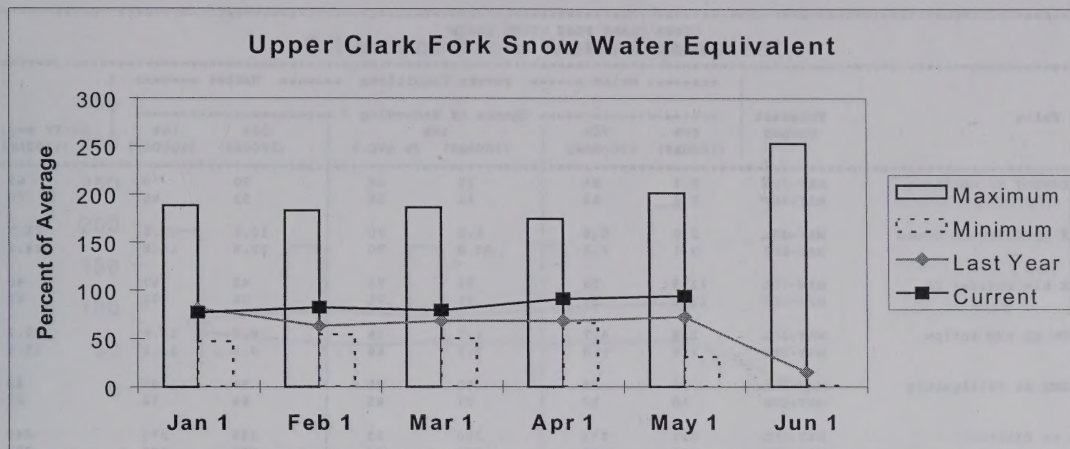
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

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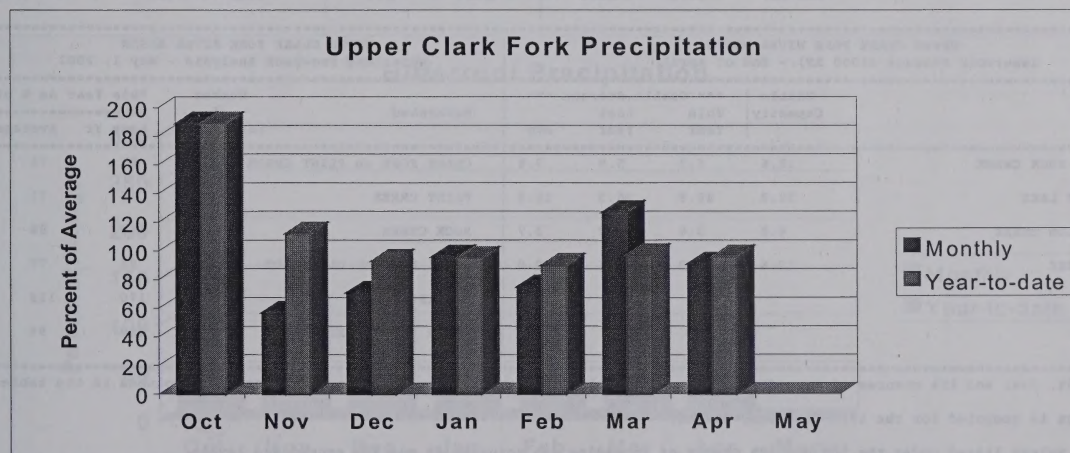
Upper Clark Fork River Basin

Snowpack conditions in the Upper Clark Fork River Basin were below average. Snow water content was 94 percent of average and 120 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1994; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 91 percent of average and 72 percent of last year. Valley precipitation during April was 91 percent of average and 82 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 96 percent of average and 121 percent of last year.



Lower Willow Creek storage was 97 percent of average and 113 percent of last year; and Nevada Creek storage was 100 percent of average and 116 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.3 in the Clark Fork River above Milltown; and +0.4 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2002

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>					
		Chance Of Exceeding *				30-Yr Avg. (1000AF)	
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)		
LITTLE BLACKFOOT nr Garrison	MAY-JUL	9.4	22	36	56	50	63
	MAY-SEP	9.8	23	41	59	59	70
FLINT CREEK nr Southern Cross	MAY-JUL	2.8	6.0	8.2	70	10.4	11.7
	MAY-SEP	3.1	7.2	10.0	70	12.8	14.2
FLINT CREEK blw Boulder Ck	MAY-JUL	11.3	25	34	71	43	48
	MAY-SEP	17.9	34	45	71	56	63
LOWER WILLOW CK RES Inflow	MAY-JUL	1.8	4.7	6.7	66	8.7	10.2
	MAY-SEP	1.7	5.0	7.3	66	9.6	11.1
MF ROCK CREEK nr Philipsburg	MAY-JUL	34	44	50	85	56	59
	MAY-SEP	40	50	57	85	64	67
ROCK CREEK nr Clinton	MAY-JUL	127	171	200	83	229	240
	MAY-SEP	151	198	230	84	262	275
NEVADA CREEK nr Finn	MAY-JUL	3.7	7.6	10.2	73	12.8	13.9
	MAY-SEP	4.7	8.8	11.5	74	14.2	15.5
BLACKFOOT RIVER nr Bonner	MAY-JUL	532	638	710	105	782	675
	MAY-SEP	608	722	800	105	878	765
CLARK FORK abv Milltown	MAY-JUL	182	318	410	80	502	510
	MAY-SEP	240	392	495	81	598	610
CLARK FORK abv Missoula	MAY-JUL	861	1027	1140	96	1253	1190
	MAY-SEP	1003	1180	1300	95	1420	1370

UPPER CLARK FORK RIVER BASIN Reservoir Storage (1000 AF) - End of April					UPPER CLARK FORK RIVER BASIN Watershed Snowpack Analysis - May 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
EAST FORK ROCK CREEK	15.6	6.3	5.9	9.8	CLARK FORK ab FLINT CREEK	13	87	74
GEORGETOWN LAKE	31.0	28.9	26.3	26.5	FLINT CREEK	6	76	71
LOWER WILLOW CREEK	4.9	3.6	3.2	3.7	ROCK CREEK	5	110	86
NEVADA CREEK	12.6	10.0	8.6	10.0	CLARK FORK ab BLACKFOOT	21	92	77
					BLACKFOOT	15	170	119
					UPPER CLARK FORK BASIN	34	120	94

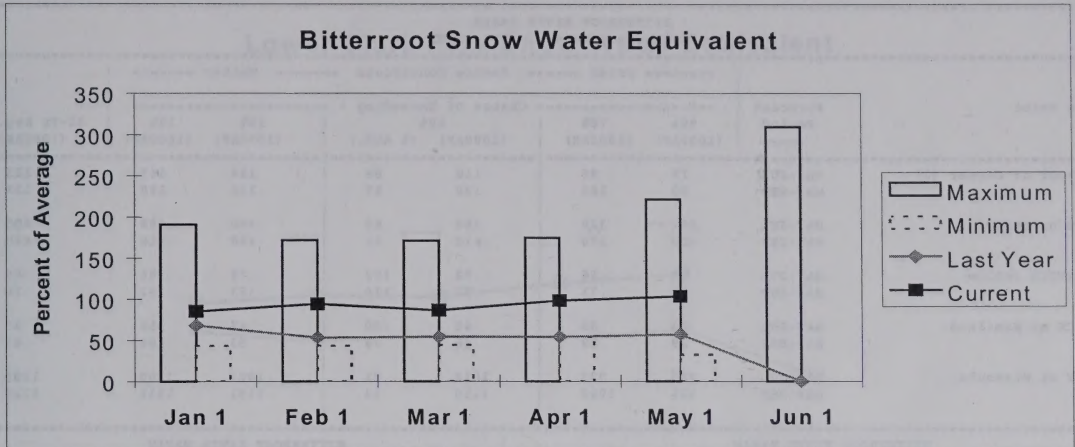
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The average is computed for the 1971-2000 base period.

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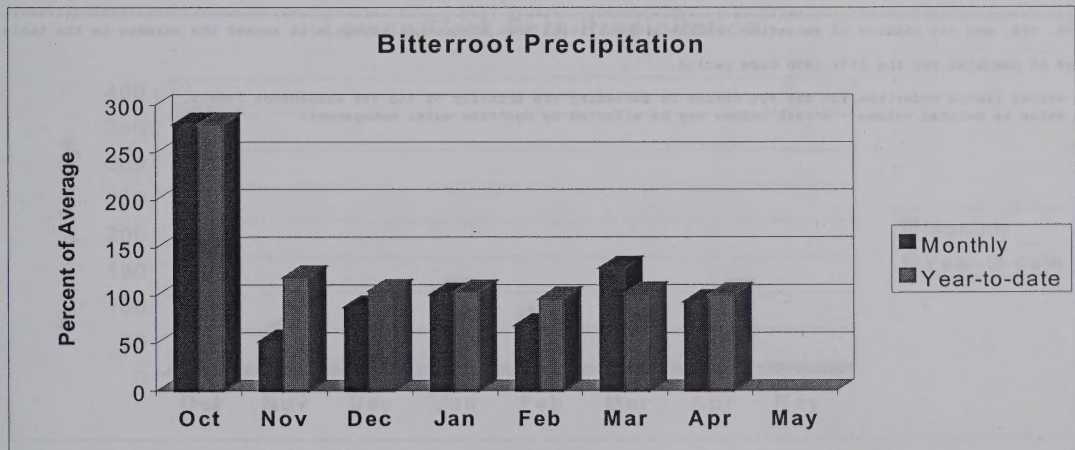
Bitterroot River Basin

Snowpack conditions in the Bitterroot River Basin were near average. Snow water content was 103 percent of average and 167 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 2001; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 97 percent of average and 83 percent of last year. Valley precipitation during April was 80 percent of average and 57 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 101 percent of average and 149 percent of last year.



Painted Rocks Lake storage was 115 percent of average and 116 percent of last year and Como storage was 97 percent of average and 109 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -0.4 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - May 1, 2002

Forecast Point	Forecast Period	<----- Drier ----- Future Conditions ----- Wetter ----->						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
WF BITTERROOT nr Conner (2)	MAY-JUL	75	96	110	88	124	145	125
	MAY-SEP	80	104	120	87	136	160	138
BITTERROOT nr Darby	MAY-JUL	262	320	360	89	400	458	405
	MAY-SEP	310	370	410	89	450	510	460
COMO RESERVOIR Inflow	MAY-JUL	58	66	72	109	78	86	66
	MAY-SEP	62	71	77	110	83	92	70
SKALKAHO CK nr Hamilton	MAY-JUL	24	33	40	100	47	56	40
	MAY-SEP	28	39	46	98	53	64	47
BITTERROOT at Missoula	MAY-JUL	820	933	1010	92	1087	1200	1100
	MAY-SEP	909	1029	1110	92	1191	1311	1210

BITTERROOT RIVER BASIN Reservoir Storage (1000 AF) - End of April					BITTERROOT RIVER BASIN Watershed Snowpack Analysis - May 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
PAINTED ROCKS LAKE	31.7	19.6	16.9	17.1	WEST FORK BITTERROOT	3	143	99
COMO	34.9	19.6	17.9	20.2	EAST SIDE BITTERROOT	5	138	90
					WEST SIDE BITTERROOT	3	215	115
					BITTERROOT RIVER BASIN	10	167	103

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

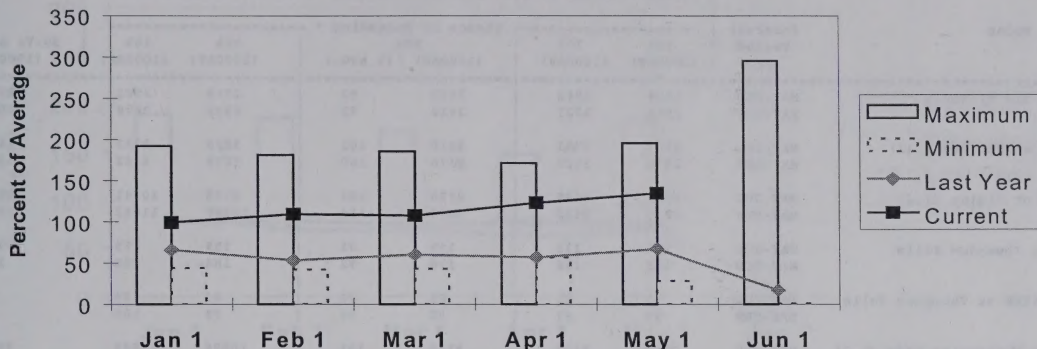
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Lower Clark Fork River Basin

Snowpack conditions in the Lower Clark Fork River Basin were well above average. Snow water content was 134 percent of average and 186 percent of last year.

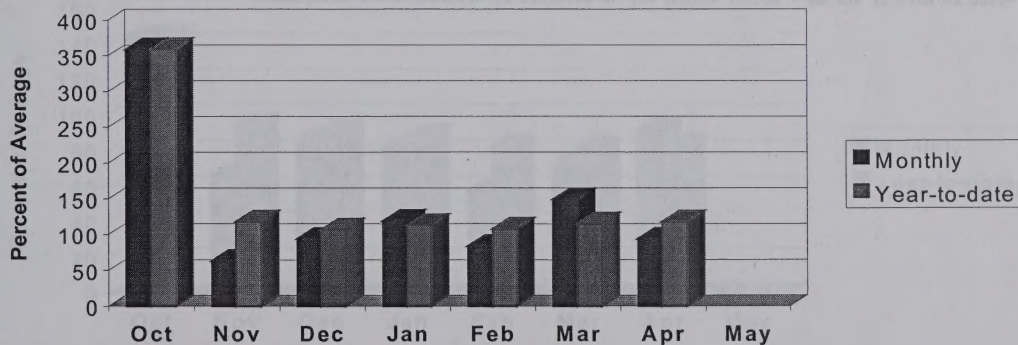
Lower Clark Fork Snow Water Equivalent



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum swe was in 1981; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during April was 97 percent of average and 71 percent of last year. Valley precipitation during April was 84 percent of average and 69 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 118 percent of average and 189 percent of last year.

Lower Clark Fork Precipitation



Noxon Rapids storage was 116 percent of average and 97 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.7 in the Clark Fork River below Bitterroot River and -0.7 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2002

		<<----- Drier ----- Future Conditions ----- Wetter ----->>						
Forecast Point	Forecast Period	Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg (1000AF)
CLARK FORK blw Missoula	MAY-JUL	1699	1962	2140	93	2318	2581	2290
	MAY-SEP	1942	2221	2410	93	2599	2878	2580
CLARK FORK at St. Regis (1)	MAY-JUL	2307	2791	3010	101	3229	3713	2980
	MAY-SEP	2578	3122	3370	100	3618	4162	3370
CLARK FORK nr Plains (1,2)	MAY-JUL	7399	8445	8920	104	9395	10441	8620
	MAY-SEP	8268	9432	9960	104	10488	11652	9600
THOMPSON nr Thompson Falls	MAY-JUL	111	131	145	91	159	179	159
	MAY-SEP	135	156	170	92	184	205	185
PROSPECT CREEK at Thompson Falls	MAY-JUL	75	81	85	98	89	95	87
	MAY-SEP	85	91	95	99	99	105	96
CLARK FK at Whitehorse Rpds (1,2)	MAY-JUL	7948	9194	9760	102	10326	11572	9586
	MAY-SEP	8877	10268	10900	102	11532	12923	10710

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
		Year	Year	
NOXON RAPIDS	335.0	316.2	324.4	272.3

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2002

Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
LOWER CLARK FORK BASIN	12	186	134

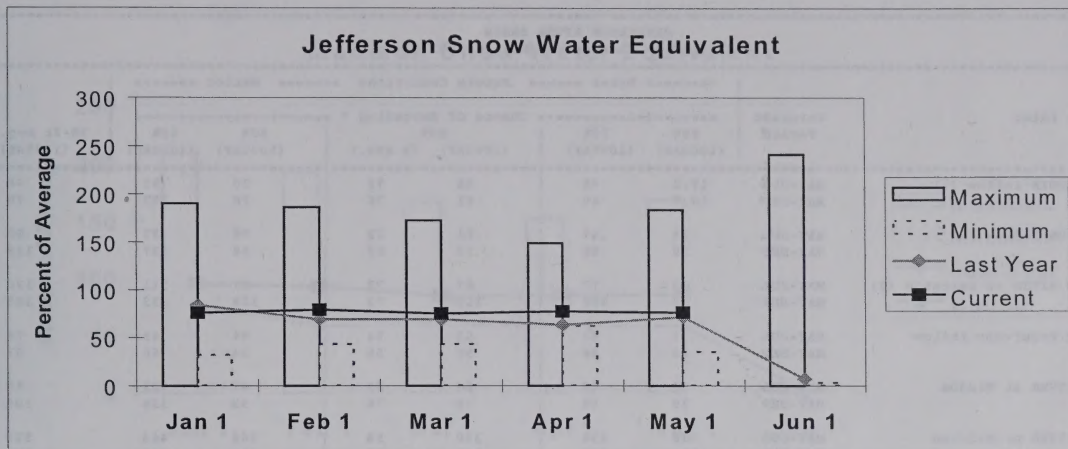
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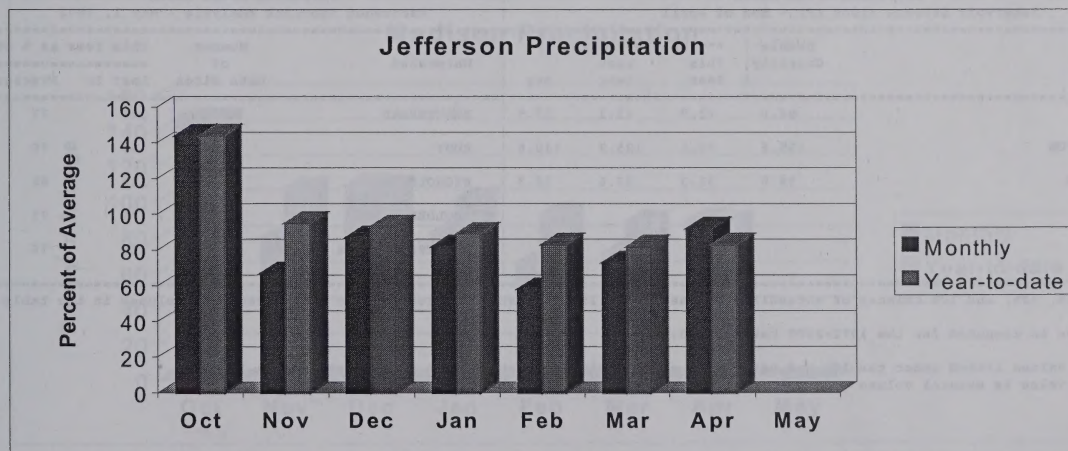
Jefferson River Basin

Snowpack conditions in the Jefferson River Basin were below average. Snow water content was 76 percent of average and 102 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 94 percent of average and 71 percent of last year. Valley precipitation during April was 80 percent of average and 66 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 83 percent of average and 101 percent of last year.



Lima storage was 41 percent of average and 58 percent of last year; Clark Canyon storage was 55 percent of average and 70 percent of last year; and Ruby River storage was 86 percent of average and 83 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.3 in the Beaverhead River; -2.8 in the Ruby River; -3.0 in the Big Hole River; -2.3 in the Boulder River; and -3.0 in the Jefferson River as a whole.

JEFFERSON RIVER BASIN
Streamflow Forecasts - May 1, 2002

		<----- Drier ----- Future Conditions ----- Wetter ----->						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
LIMA RESERVOIR Inflow (2)	MAY-JUL	17.2	40	55	79	70	93	70
	MAY-SEP	18.7	44	61	78	78	103	78
CLARK CANYON Inflow (2)	MAY-JUL	25	47	61	68	76	97	90
	MAY-SEP	29	58	78	67	98	127	116
BEAVERHEAD RIVER at Barretts (2)	MAY-JUL	63	77	87	73	97	111	120
	MAY-SEP	87	101	110	72	119	133	153
RUBY RIVER Reservoir Inflow	MAY-JUL	31	37	40	54	44	49	74
	MAY-SEP	40	46	50	55	54	60	91
BIG HOLE RIVER at Wisdom	MAY-JUL	24	48	64	69	87	121	93
	MAY-SEP	30	54	70	70	93	128	100
BIG HOLE RIVER nr Melrose	MAY-JUL	136	234	300	58	366	464	520
	MAY-SEP	154	262	335	58	408	516	575
BOULDER RIVER nr Boulder	MAY-JUL	18.6	33	43	63	59	82	68
	MAY-SEP	21	37	48	64	65	91	75
WILLOW CREEK Reservoir Inflow	MAY-JUL	2.8	5.9	8.0	53	11.9	17.8	15.2
	MAY-SEP	3.2	7.0	9.5	54	14.2	21	17.5
JEFFERSON RIVER nr Three Forks (2)	MAY-JUL	153	243	305	51	426	603	600
	MAY-SEP	178	278	345	51	477	672	680

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
LIMA	84.0	23.8	41.1	57.5
CLARK CANYON	255.6	88.1	125.2	160.6
RUBY RIVER	38.8	31.3	37.6	36.3

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2002

Watershed	Number of Data Sites	This Year as % of Last Yr Average	
		Last Yr	Average
BEAVERHEAD	16	107	77
RUBY	10	91	70
BIGHOLE	16	115	82
BOULDER	8	76	71
JEFFERSON RIVER BASIN	41	102	76

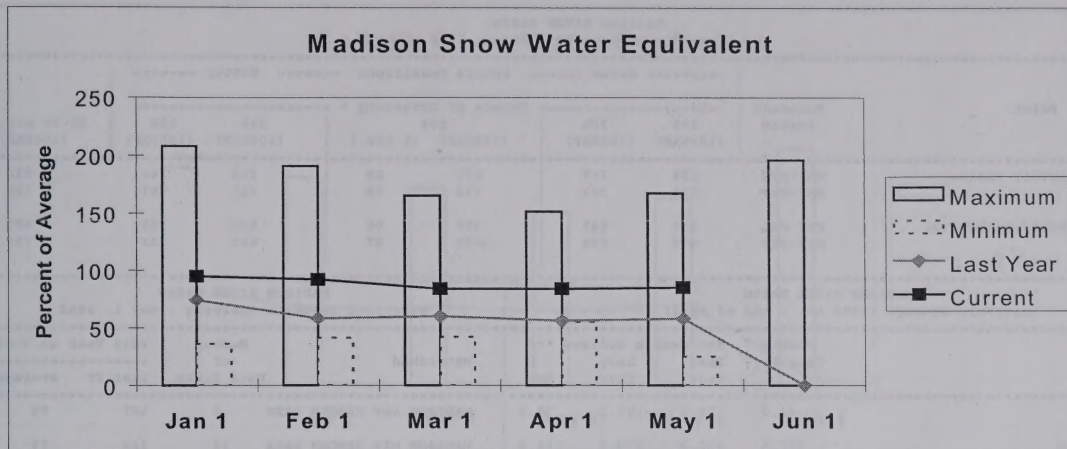
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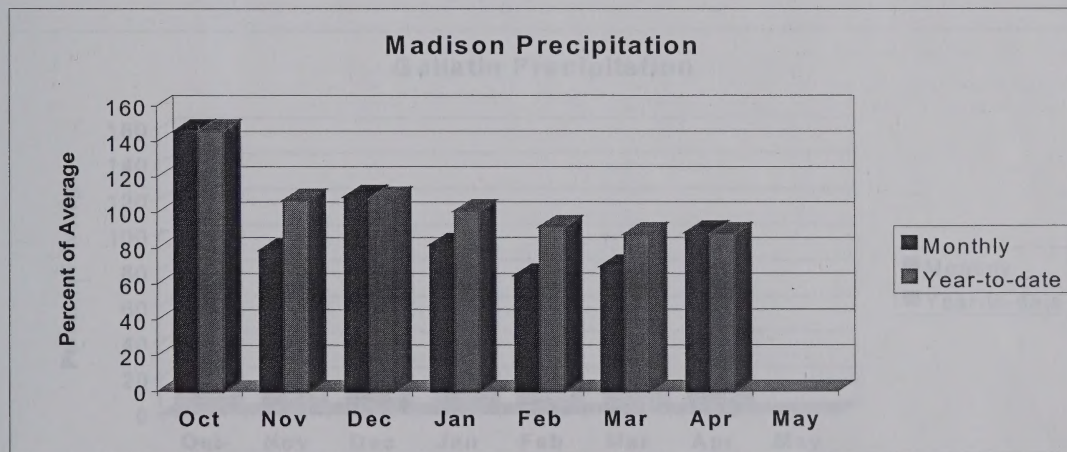
Madison River Basin

Snowpack conditions in the Madison River Basin were below average. Snow water content was 85 percent of average and 139 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 89 percent of average and 78 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 88 percent of average and 122 percent of last year.



Ennis Lake storage was 82 percent of average and 90 percent of last year and Hebgen Lake storage was 114 percent of average and 100 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was +0.1 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - May 1, 2002

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>					
		Chance Of Exceeding *				30-Yr Avg.	
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)
HEBGEN Reservoir Inflow	MAY-JUL	234	267	290	88	313	346
	MAY-SEP	323	363	390	89	417	457
ENNIS Reservoir Inflow (2)	MAY-JUL	418	467	500	86	533	582
	MAY-SEP	548	609	650	87	691	752

MADISON RIVER BASIN Reservoir Storage (1000 AF) - End of April					MADISON RIVER BASIN Watershed Snowpack Analysis - May 1, 2002		
Reservoir	Usable Capacity	*** This Year	Usable Last Year	Storage *** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr Average
ENNIS LAKE	41.0	27.8	31.0	33.8	MADISON abv HEBGEN LAKE	6	187
HEBGEN LAKE	377.5	290.9	290.0	254.6	MADISON blw HEBGEN LAKE	11	118
					MADISON RIVER BASIN	17	139

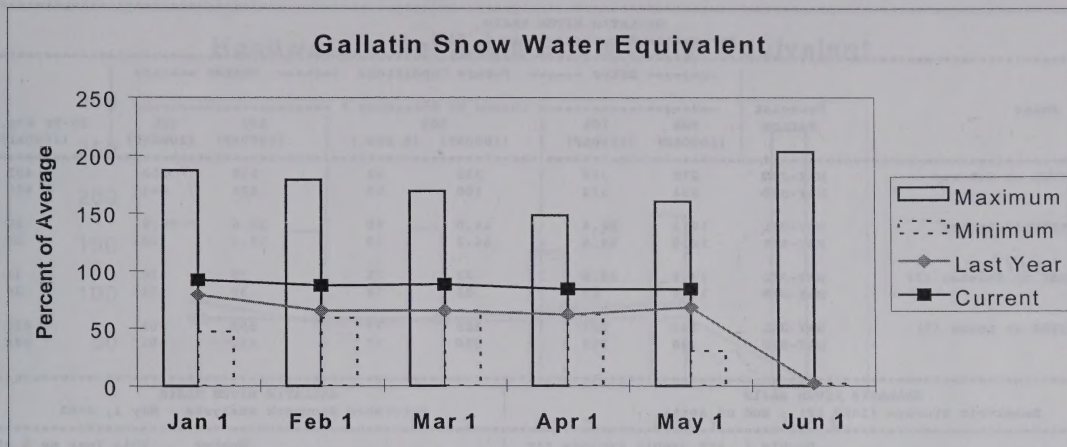
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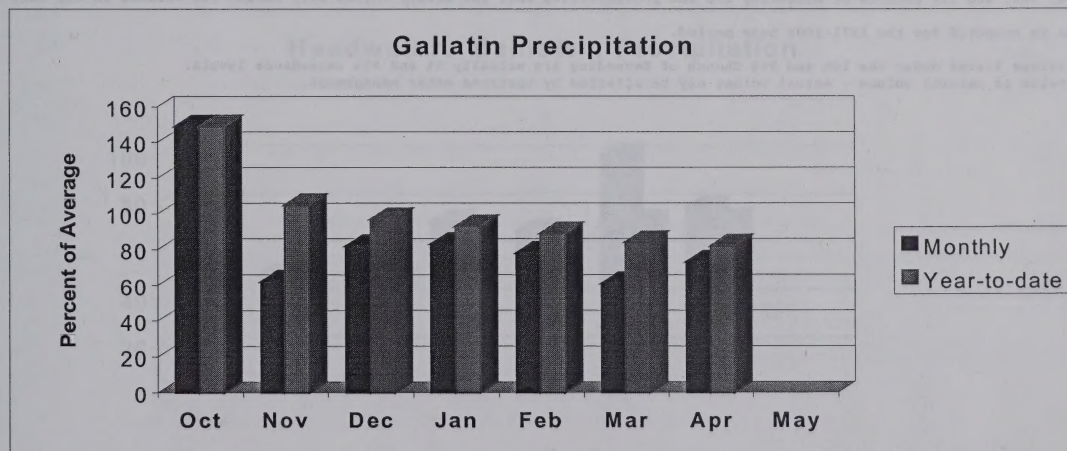
Gallatin River Basin

Snowpack conditions in the Gallatin River Basin were below average. Snow water content was 84 percent of average and 118 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 72 percent of average and 71 percent of last year. Valley precipitation during April was 83 percent of average and 90 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 82 percent of average and 115 percent of last year.



Middle Creek storage was 134 percent of average and 90 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.2 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - May 1, 2002

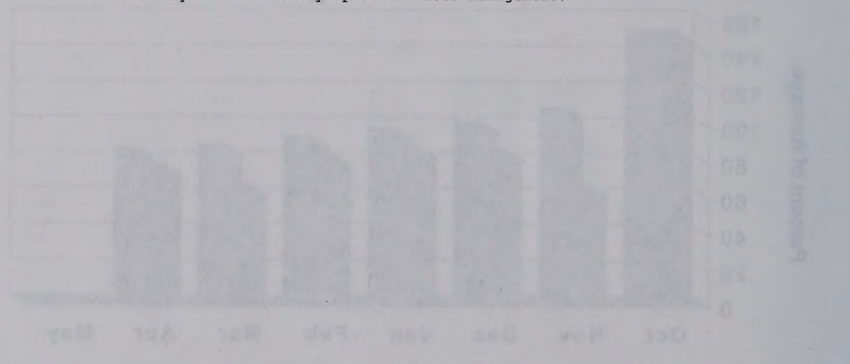
Forecast Point	Forecast Period	<----- Drier ----- Future Conditions ----- Wetter ----->						30-Yr Avg. (1000AF)
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
GALLATIN RIVER nr Gateway	MAY-JUL	278	312	335	83	358	392	405
	MAY-SEP	331	372	400	83	428	469	480
HYALITE RESERVOIR Inflow	MAY-JUL	10.1	12.4	14.0	70	15.6	17.9	20
	MAY-SEP	12.0	14.5	16.2	70	17.9	20	23
HYALITE CREEK nr Bozeman (2)	MAY-JUL	14.4	18.9	22	71	25	30	31
	MAY-SEP	17.4	23	26	72	30	35	36
GALLATIN RIVER at Logan (2)	MAY-JUL	241	291	325	77	359	409	425
	MAY-SEP	288	349	390	77	431	492	505

GALLATIN RIVER BASIN Reservoir Storage (1000 AF) - End of April					GALLATIN RIVER BASIN Watershed Snowpack Analysis - May 1, 2002		
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of Last Yr Average
		This Year	Last Year	Avg			
MIDDLE CREEK	10.2	7.1	7.9	5.3	UPPER GALLATIN	7	142
					HYALITE	3	101
					BRIDGER	3	112
					GALLATIN RIVER BASIN	13	127

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

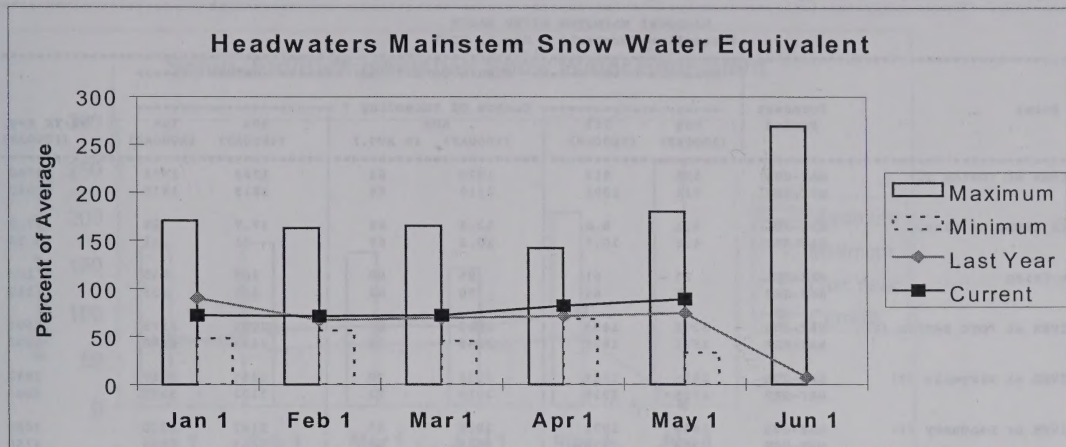
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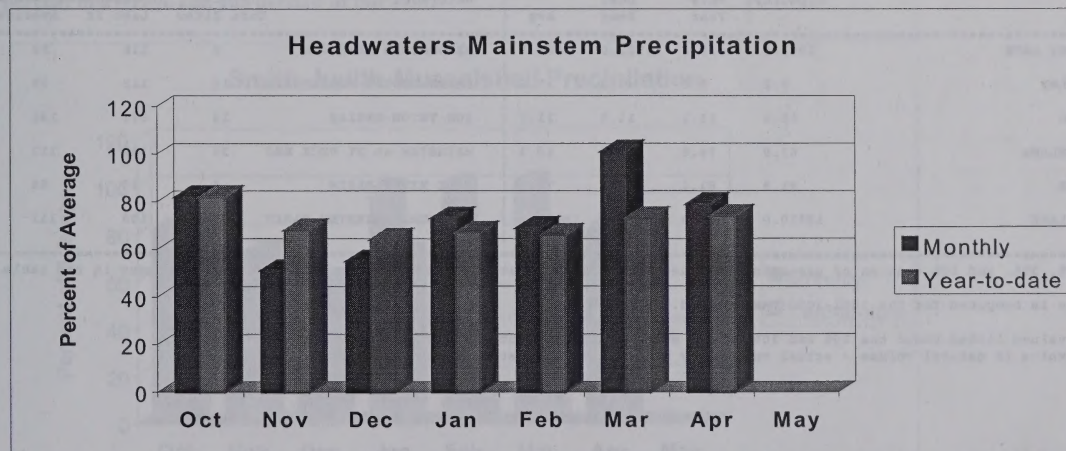
Missouri Mainstem River Basin

Snowpack conditions in the Headwaters Missouri Mainstem River Basin were above average. Snow water content was 110 percent of average and 135 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961 and 1966; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 107 percent of average and 88 percent of last year. Valley precipitation during April was 61 percent of average and 62 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 74 percent of average and 85 percent of last year.



Canyon Ferry Lake storage was 97 percent of average and 94 percent of last year; Helena Valley storage was 105 percent of average and 89 percent of last year; Lake Helena storage was 95 percent of average and 97 percent of last year; Hauser & Helena storage was 124 percent of average and 116 percent of last year; Holter Lake storage was 105 percent of average and 100 percent of last year; and Fort Peck Lake storage was 80 percent of average and 91 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.5 in the Missouri River above Canyon Ferry; -1.4 in the Missouri River below Canyon Ferry; -0.9 in the Missouri River above Fort Peck; and -1.6 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - May 1, 2002

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *		Chance Of Exceeding *		Chance Of Exceeding *		
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
MISSOURI RIVER at Toston (2)	MAY-JUL	595	812	1070	63	1328	1598	1700
	MAY-SEP	714	1001	1310	64	1619	1918	2040
PRICKLY PEAR CREEK nr Clancy	MAY-JUL	3.1	8.6	12.3	69	17.7	26	17.8
	MAY-SEP	4.6	10.9	15.2	69	21	31	22
DEARBORN nr Criag	MAY-JUL	25	61	85	80	109	145	106
	MAY-SEP	27	64	90	82	116	153	110
MISSOURI RIVER at Fort Benton (2)	MAY-JUL	1275	1400	1680	67	2050	2175	2500
	MAY-SEP	1571	1817	2140	70	2433	2680	3080
MISSOURI RIVER at Virgelle (2)	MAY-JUL	1416	1821	2015	70	2341	2717	2890
	MAY-SEP	1715	1918	2510	72	3102	3290	3500
MISSOURI RIVER nr Landusky (2)	MAY-JUL	1848	1971	2000	65	2187	2310	3080
	MAY-SEP	2250	2438	2530	68	2663	2813	3750
MISSOURI RIVER below Fort Peck (2)	MAY-JUL	1386	1848	2165	70	2464	2926	3080
	MAY-SEP	1652	1897	2570	70	3243	3487	3670
LAKE SAKAKAWEA Inflow (2)	MAY-JUL	3850	5106	6000	72	6780	8119	8370
	MAY-SEP	4513	5984	6980	71	7946	9516	9810

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of April

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - May 1, 2002

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CANYON FERRY LAKE	2043.0	1435.0	1522.0	1483.5	HEADWATERS MAINSTEM	9	116	90
HELENA VALLEY	9.2	8.0	9.0	7.6	SMITH-JUDITH-MUSSELSHELL	14	129	99
LAKE HELENA	10.4	11.1	11.5	11.7	SUN-TETON-MARIAS	13	161	134
HAUSER & HELENA	61.9	74.8	64.4	60.1	MAINSTEM ab FT PECK RES	35	140	112
HOLTER LAKE	81.9	81.1	81.3	77.1	MILK RIVER BASIN	4	80	84
FORT PECK LAKE	18910.0	12060.0	13200.0	15122.0	MISSOURI MAINSTEM BASIN	38	136	111

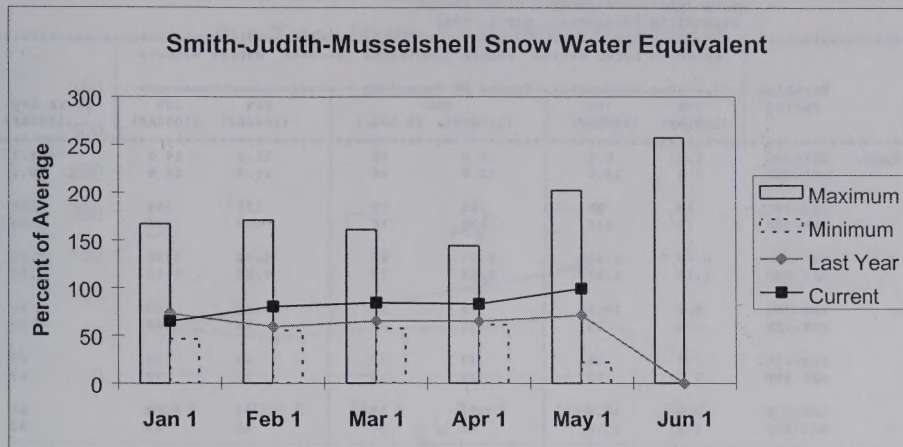
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

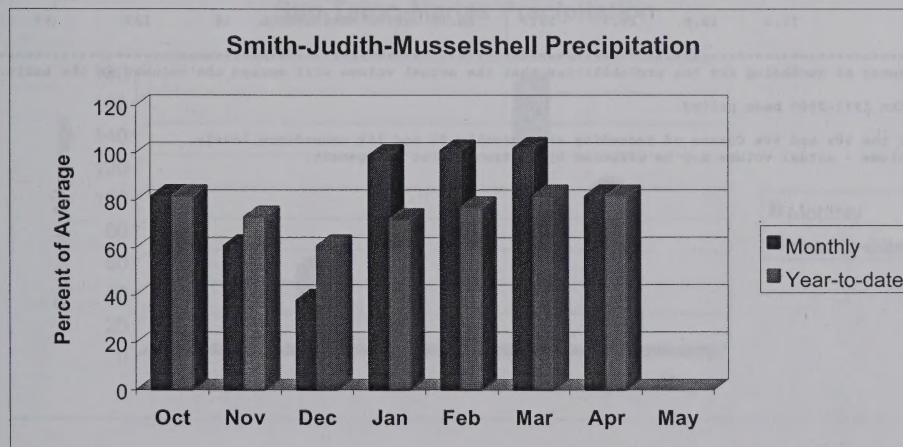
Smith-Judith-Musselshell River Basins

Snowpack conditions in the Smith-Judith-Musselshell River Basins were near average. Snow water content in the Smith River Basin was 95 percent of average and 138 percent of last year; in the Judith River Basin was 105 percent of average and 124 percent of last year; and in the Musselshell Basin River was 89 percent of average and 132 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Smith-Belts was 112 percent of average and 93 percent of last year; in the Judith was 68 percent of average and 71 percent of last year; and in the Musselshell was 76 percent of average and 82 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 82 percent of average and 105 percent of last year.



Smith River storage was 31 percent of average and 76 percent of last year; Bair storage was 49 percent of average and 117 percent of last year; Martinsdale storage was 10 percent of average and 41 percent of last year; and Deadman's Basin was 33 percent of average and 73 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.1 in the Smith River and -2.8 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - May 1, 2002

		<----- Drier ----- Future Conditions ----- Wetter ----->						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SHEEP CREEK nr White Sulphur Spgs.	MAY-JUL	6.0	8.4	10.0	66	11.6	14.0	15.1
	MAY-SEP	7.1	10.0	12.0	66	14.0	16.9	18.1
SMITH RIVER abv Eagle Creek	MAY-JUL	56	85	105	70	125	154	150
	MAY-SEP	73	110	135	73	160	197	185
NF MUSSELSHELL nr Delpine	MAY-JUL	0.84	2.10	2.95	80	3.80	5.06	3.70
	MAY-SEP	1.15	2.64	3.65	79	4.66	6.15	4.60
SF MUSSELSHELL abv Martinsdale	MAY-JUL	8.1	19.6	28	60	41	60	46
	MAY-SEP	9.8	22	31	61	44	65	50
MUSSELSHELL at Harlowton (2)	MAY-JUL	7.4	25	37	56	48	66	65
	MAY-SEP	7.0	26	38	56	51	70	69
MUSSELSHELL nr Roundup (2)	MAY-JUL	0.9	18.9	31	39	44	62	80
	MAY-SEP	1.6	17.8	31	37	43	62	82

SMITH-JUDITH-MUSSELSHELL RIVER BASINS Reservoir Storage (1000 AF) - End of April					SMITH-JUDITH-MUSSELSHELL RIVER BASINS Watershed Snowpack Analysis - May 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
SMITH RIVER	10.6	2.8	3.7	9.0	SMITH	8	138	95
BAIR	7.0	2.7	2.3	5.5	JUDITH	6	124	105
MARTINDALE	23.1	1.4	3.4	13.8	MUSSELSHELL	5	132	89
DEADMAN'S BASIN	72.2	19.5	26.7	58.9	SMITH-JUDITH-MUSSELSHELL	14	129	99

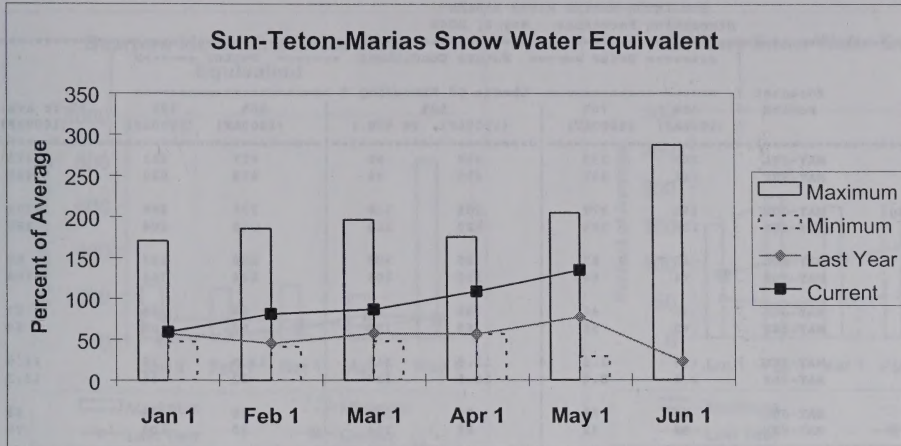
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Sun-Teton-Marias River Basins

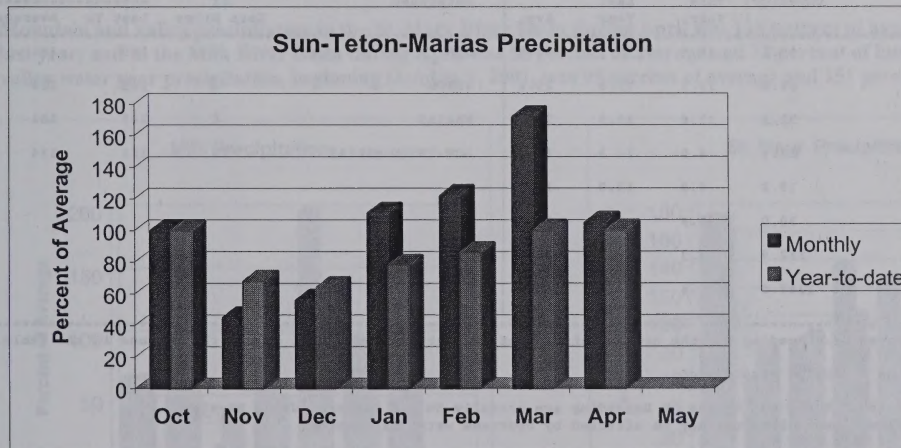
Snowpack conditions in the Sun-Teton-Marias River Basins were well above average. Snow water content in the Sun River Basin was 131 percent of average and 150 percent of last year; in the Teton River Basin was 138 percent of average and 145 percent of last year; and in the Marias River Basin was 131 percent of average and 167 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1984; April maximum swe was in 1972 and minimum swe was in 1984; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Sun was 89 percent of average and 55 percent of last year; in the Teton was 106 percent of average and 76 percent of last year; and in the Marias was 108 percent of average and 67 percent of last year.

Mountain and valley water year precipitation, beginning October 1, 2001, was 100 percent of average and 133 percent of last year.



Gibson storage was 65 percent of average and 45 percent of last year; Pishkun storage was 75 percent of average and 65 percent of last year; Willow Creek storage was 81 percent of average and 249 percent of last year; Lower Two Medicine Lake storage was 116 percent of average and 83 percent of last year; Four Horns Lake storage was 102 percent of average and 107 percent of last year; Swift storage was 51 percent of average and 49 percent of last year; Lake Frances storage was 35 percent of average and 93 percent of last year; and Lake Elwell (Tiber) storage was 115 percent of average and 90 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.3 in the Sun River; -1.4 in the Teton River; -3.4 in the Birch/Dupuyer Creeks; and -1.1 in the Marias River above Tiber Reservoir and -0.3 in the Marias River below Tiber Reservoir.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - May 1, 2002

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
GIBSON Reservoir Inflow	MAY-JUL	299	353	390	94	427	481	415
	MAY-SEP	341	397	435	94	473	529	465
TWO MEDICINE RIVER nr Browning	MAY-JUL	141	179	205	118	231	269	174
	MAY-SEP	156	194	220	118	246	284	187
BADGER CREEK nr Browning (2)	MAY-JUL	63	82	95	108	108	127	88
	MAY-SEP	76	96	110	106	124	144	104
SWIFT RESERVOIR Inflow	MAY-JUL	31	46	56	98	66	81	57
	MAY-SEP	42	58	69	100	80	96	69
DUPUYER CREEK nr Valier	MAY-JUL	1.4	6.5	13.5	116	19.5	28	11.6
	MAY-SEP	2.1	8.0	15.5	117	22	31	13.3
CUT BANK CREEK at Cut Bank	MAY-JUL	51	64	72	104	80	93	69
	MAY-SEP	58	72	81	104	90	104	78
MARIAS RIVER nr Shelby (2)	MAY-JUL	280	345	390	113	435	500	345
	MAY-SEP	306	371	415	112	459	524	370
TETON nr Dutton	MAY-JUL	7.9	24	35	83	48	68	42
	MAY-SEP	14.8	30	41	82	54	73	50

SUN-TETON-MARIAS RIVER BASINS					SUN-TETON-MARIAS RIVER BASINS			
Reservoir Storage (1000 AF) - End of April					Watershed Snowpack Analysis - May 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GIBSON	99.1	45.5	36.9	61.8	SUN	6	150	131
PISHKUN	32.0	19.9	19.0	25.8	TETON	4	145	138
WILLOW CREEK	32.2	17.6	19.9	25.3	MARIAS	6	167	131
LOWER TWO MEDICINE LAKE	11.9	4.0	10.3	11.0	SUN-TETON-MARIAS	13	161	134
FOUR HORNS LAKE	19.2	0.0	13.0	12.3				
SWIFT	30.0	10.9	9.4	18.5				
LAKE FRANCES	112.0	28.3	27.2	75.6				
LAKE ELWELL (TIBER)	1347.0	691.4	701.4	658.6				

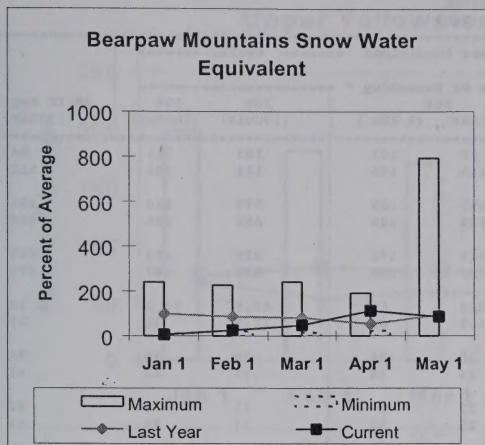
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The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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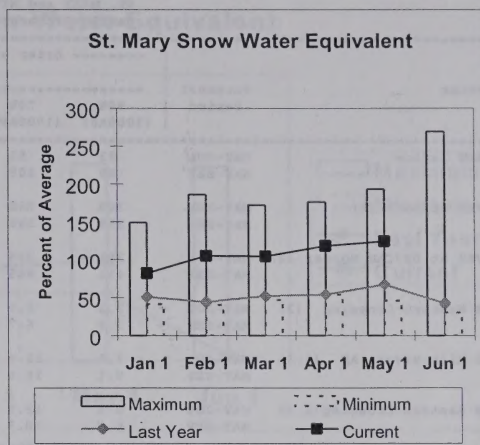
St. Mary and Milk River Basins

Snowpack conditions in the St. Mary and Milk River Basins were above average. Snow water content in the Saint Mary River Basin was 124 percent of average and 171 percent of last year. The Milk River Basin (Bearpaw Mountains) was 84 percent of average and 80 percent of last year.

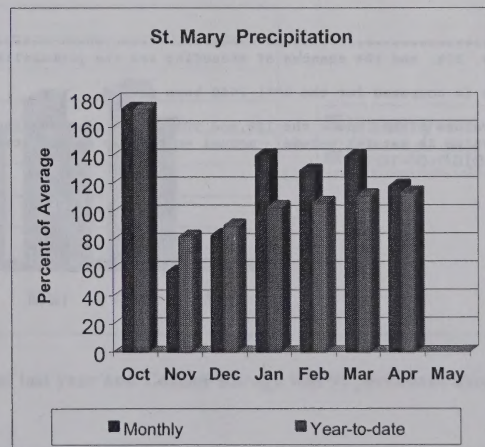
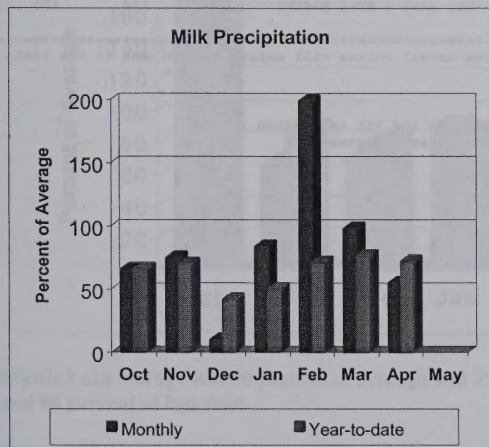


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum swe was in 1973; March maximum swe was 1978 and minimum swe was 1995; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1967 and 1972 and minimum swe was in 2001; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.



Mountain and valley precipitation in the St. Mary River Basin during April was 118 percent of average and 79 percent of last year; and in the Milk River Basin during April was 55 percent of average and 72 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 95 percent of average and 151 percent of last year.



Lake Sherburne storage was 39 percent of average and 106 percent of last year; Fresno storage was 22 percent of average and 237 percent of last year; Beaver Creek was 7 percent of average and 8 percent of last year; and Nelson storage was 30 percent of average and 61 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.8 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - May 1, 2002

		<----- Drier ----- Future Conditions ----- Wetter ----->						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
LAKE SHERBURNE Inflow	MAY-JUL	83	91	97	103	103	111	94
	MAY-SEP	99	109	115	103	121	131	112
ST. MARY RIVER nr Babb (2)	MAY-JUL	300	333	355	100	377	410	355
	MAY-SEP	359	398	425	100	452	491	425
ST. MARY RIVER at US/CAN Border (2)	MAY-JUL	351	395	425	106	455	499	400
	MAY-SEP	413	465	500	105	535	587	475
MILK RIVER @ Western Crossing (3)	MAY-JUL	3.2	6.6	13.3	67	14.8	18.2	20
	MAY-SEP	3.9	6.7	14.3	62	17.7	21	23
MILK RIVER @ Milk River, AB (2,3)	MAY-JUL	7.9	12.9	20	54	28	33	38
	MAY-SEP	9.1	15.6	24	58	32	35	41
MILK RIVER @ Eastern Crossing(2,3)	MAY-JUL	6.3	15.0	23	56	32	36	42
	MAY-SEP	6.8	18.3	25	52	32	44	49
BEAVER CREEK near Havre	MAY-JUL	0.22	0.73	1.08	15	3.41	6.83	7.00

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
LAKE SHERBURNE	64.3	8.2	7.7	20.8
FRESNO	127.0	19.7	8.3	90.9
BEAVER CREEK	3.5	0.2	2.6	2.8
NELSON	66.8	12.6	20.6	42.7

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - May 1, 2002

Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
ST. MARY	8	171	124
BEARPAW MOUNTAINS	4	80	84
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	4	80	84
ST. MARY & MILK BASINS	12	168	123

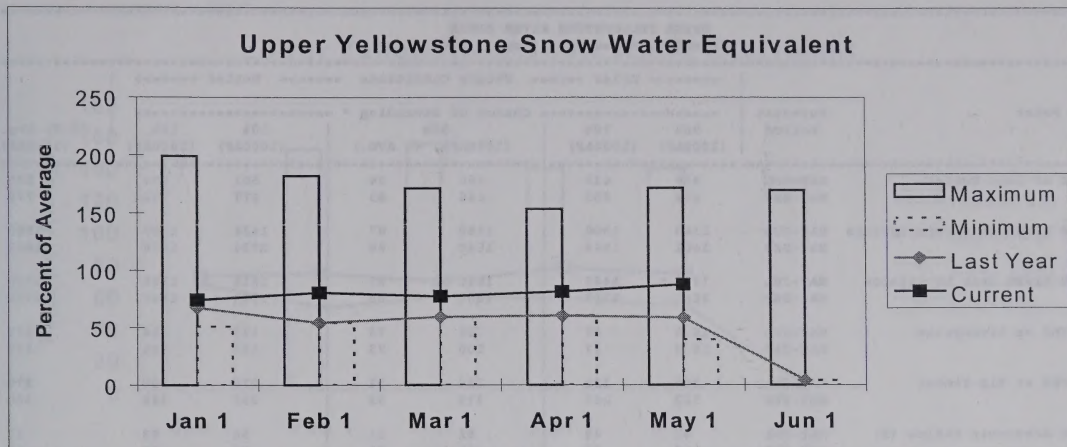
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The average is computed for the 1971-2000 base period.

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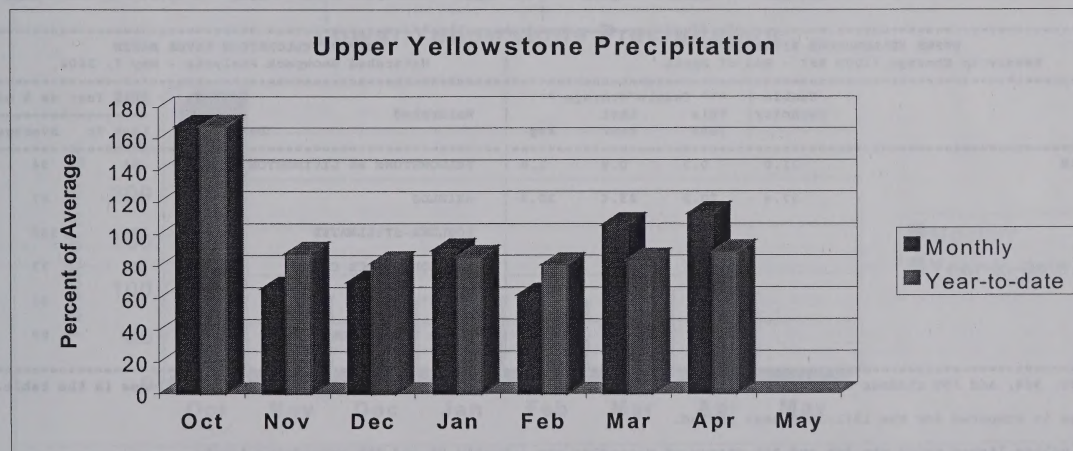
Upper Yellowstone River Basin

Snowpack conditions in the Upper Yellowstone River Basin were below average. Snow water content was 87 percent of average and 150 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1997 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 116 percent of average and 107 percent of last year. Valley precipitation during April was 98 percent of average and 115 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 89 percent of average and 125 percent of last year.



Mystic Lake storage was 30 percent of average and 33 percent of last year and Cooney storage was 97 percent of average and 86 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.5 in the Yellowstone River above Livingston; -2.8 in the Shields River; -3.7 in the Boulder River; -2.8 in the Stillwater River; -2.5 in the Rock/Red lodge Creeks; -2.8 in the Clarks Fork River; and -2.1 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2002

		<----- Drier ----- Future Conditions ----- Wetter ----->							
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)	
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)		
YELLOWSTONE at Lake Outlet	MAY-JUL	376	429	465	84	501	554	555	
	MAY-SEP	548	603	640	83	677	732	770	
YELLOWSTONE RIVER at Corwin Springs	MAY-JUL	1143	1266	1350	87	1434	1557	1550	
	MAY-SEP	1402	1544	1640	88	1736	1878	1870	
YELLOWSTONE RIVER near Livingston	MAY-JUL	1354	1465	1540	87	1615	1726	1770	
	MAY-SEP	1661	1797	1890	88	1983	2107	2150	
SHIELDS RIVER nr Livingston	MAY-JUL	16.0	57	85	70	113	154	121	
	MAY-SEP	19.0	67	100	73	133	181	138	
BOULDER RIVER at Big Timber	MAY-JUL	200	230	250	91	270	300	275	
	MAY-SEP	222	254	275	92	296	328	300	
MYSTIC LAKE Reservoir Inflow (2)	MAY-JUL	42	48	52	91	56	62	57	
	MAY-SEP	56	62	67	91	72	78	74	
STILLWATER RIVER nr Absarokee (2)	MAY-JUL	260	314	350	75	386	440	470	
	MAY-SEP	329	386	425	76	464	521	560	
CLARKS FORK RIVER nr Belfry	MAY-JUL	311	358	390	76	422	469	515	
	MAY-SEP	341	391	425	75	459	509	570	
COONEY RESERVOIR Inflow (2)	MAY-JUL	7.7	14.1	18.5	49	27	40	38	
	MAY-SEP	14.4	21	26	53	35	48	49	
YELLOWSTONE RIVER at Billings (2)	MAY-JUL	1851	2297	2600	80	2903	3349	3250	
	MAY-SEP	2272	2792	3120	81	3448	3966	3850	

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2002

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
MYSTIC LAKE	21.0	0.3	0.9	1.0	YELLOWSTONE ab LIVINGSTON	17	155	94
COONEY	27.4	20.2	23.4	20.9	SHIELDS	5	122	87
					BOULDER-STILLWATER	4	173	100
					RED LODGE-ROCK CREEK	5	157	73
					CLARK'S FORK	7	164	83
					UPPER YELLOWSTONE BASIN	34	153	89

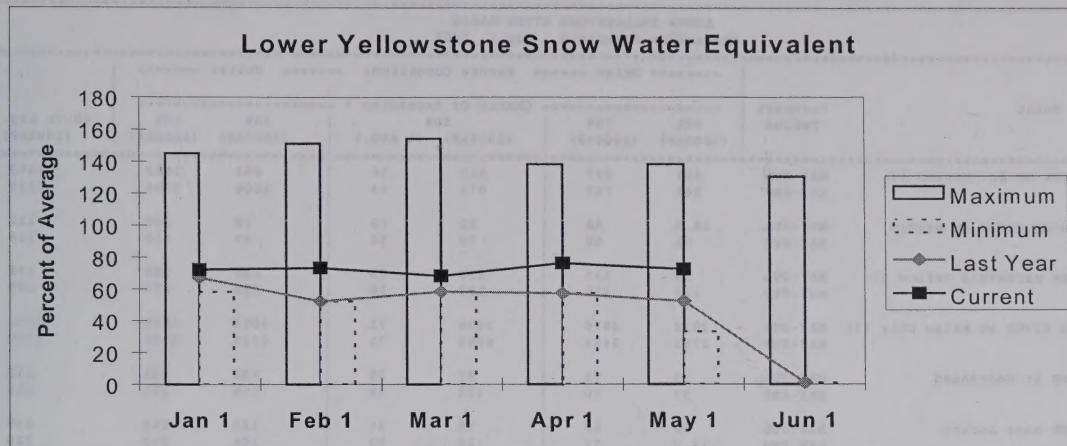
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The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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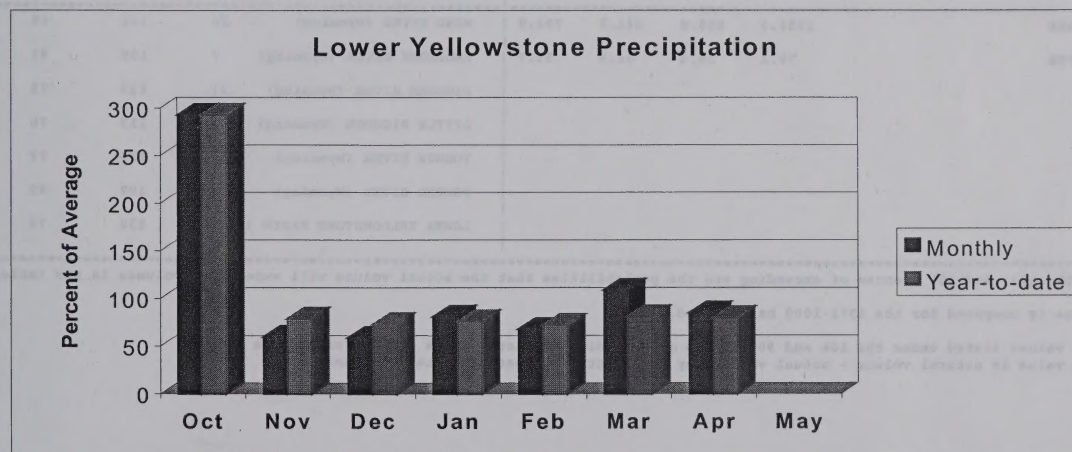
Lower Yellowstone River Basin

Snowpack conditions in the Lower Yellowstone River Basin, in Wyoming, were below average. Snow water content was 72 percent of average and 135 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 85 percent of average and 104 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2001, was 80 percent of average and 110 percent of last year.



Bighorn Lake storage was 83 percent of average and 78 percent of last year and Tongue River storage was 109 percent of average and 77 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.6 in the Bighorn River below Bighorn Lake; -3.3 in the Little Bighorn River; -2.8 in the Yellowstone River below Bighorn River; -2.8 in the Tongue River; and -3.1 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2002

		<----- Drier ----- Future Conditions ----- Wetter ----->						
Forecast Point	Forecast Period	Chance Of Exceeding *		Chance Of Exceeding *		Chance Of Exceeding *		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
BIGHORN RIVER nr St. Xavier (2)	MAY-JUL	491	687	820	56	953	1149	1470
	MAY-SEP	546	742	875	54	1008	1204	1630
LITTLE BIGHORN RIVER nr Hardin	MAY-JUL	15.0	42	60	55	78	105	110
	MAY-SEP	21	50	70	56	90	119	126
TONGUE RIVER RESERVOIR Inflow (2)	MAY-JUL	90	135	165	83	195	240	199
	MAY-SEP	110	158	190	84	222	270	225
YELLOWSTONE RIVER at Miles City (2)	MAY-JUL	2032	2876	3450	71	4024	4868	4890
	MAY-SEP	2755	3449	4080	71	4711	5396	5740
POWDER RIVER at Moorehead	MAY-JUL	40	74	97	55	139	201	178
	MAY-SEP	53	90	115	58	158	221	200
POWDER RIVER near Locate	MAY-JUL	22	66	95	49	124	168	195
	MAY-SEP	18.0	76	115	52	154	212	220
YELLOWSTONE RIVER nr Sidney (2)	MAY-JUL	1547	2799	3650	74	4501	5753	4950
	MAY-SEP	2765	3234	4272	74	5310	5875	5760

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2002

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BIGHORN LAKE	1356.0	656.8	841.2	791.9	WIND RIVER (Wyoming)	20	151	68
TONGUE RIVER	79.1	34.4	44.5	31.7	SHOSHONE RIVER (Wyoming)	7	159	81
					BIGHORN RIVER (Wyoming)	21	133	75
					LITTLE BIGHORN (Wyoming)	3	113	75
					TONGUE RIVER (Wyoming)	11	125	77
					POWDER RIVER (Wyoming)	9	107	62
					LOWER YELLOWSTONE BASIN (	50	132	72

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.



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Montana
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Natural Resources Conservation Service
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